# KV-1221R
# RM-702

*Canadian Model*

*Chassis No. SCC-266C-A*

## TRINITRON® COLOR TV

**ATTENTION !**

**POUR ÉLIMINER TOUT RISQUE D'ÉLECTROCUTION ET DE DESTRUCTION DES CIRCUITS ÉLECTRONIQUES, LORS DU DEPANNAGE DE L'APPAREIL, CAPOT ARRIERE ÔTÉ, S'ASSURER QUE CELUI-CI EST BRANCHÉ SUR UN TRANSFORMATEUR D'ISOLATION CORRECTEMENT DIMENSIONNE.**

**WARNING !!**

**AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.**
**THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!**

**LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.**

**SAFETY-RELATED COMPONENT WARNING !!**

**COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.**

# SONY®
# SERVICE MANUAL

## SPECIFICATIONS

**Television System:** Canadian TV standards
**Color System:** NTSC
**Picture Tube:** 30.3cm, 12" (screen measured diagonally), 90° deflection TRINITRON system
**Semiconductors:** 39 transistors, 3 FETs, 13 ICs and 59 diodes (including LED)
**Antennas:** VHF: 75Ω unbalanced (telescopic dipole antenna *)
UHF: 300Ω balanced (loop antenna *)
* Note: Supplied with accessories
**Channel Coverage:** VHF channels: 2-13
UHF channels: 14-83
(a total of up to 14 preselected channels)
**Intermediate Frequencies:** Picture i-f carrier: 45.75MHz
Color subcarrier: 42.17MHz
Sound i-f carrier: 41.25MHz
**Sound System:** 4.5MHz intercarrier
Output power: 1.5W (at 10% harmonic distortion)
Speaker: 8 x 12cm ($3^1/_8$ x $4^3/_4$ inches) oval, 8Ω

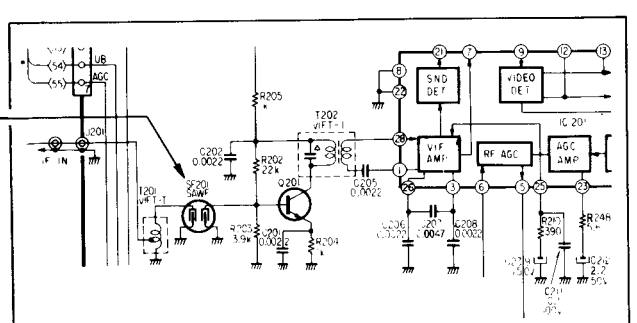
**Video System:** R.G.B. cathode drive
**Automatic Controls:** ABL (automatic brightness limiter)
ACC (automatic color control)
ACK (automatic color killer)
ADG (automatic degaussing)
AFC (automatic frequency control)
AFT (automatic fine tuning)
AGC (automatic gain control)
ANC (automatic noise canceller)
APC (automatic phase control)
AVR (automatic voltage regulator)
**Anode Voltage:** 22kV at zero beam current (no adjustment)
**Power Requirements:** 120V ac, 60Hz
**Power Consumption:** 100W ac (max), 71W ac (average)
2.5W ac in standby condition
**Dimensions:** Approx. 336 (w) x 397 (h) x 400 (d) mm
$13^1/_4$ (w) x $15^5/_8$ (h) x $15^3/_4$ (d) inches
**Net Weight:** Approx. 12.5kg (27lb 8 oz)
**Accessories Supplied:** Earphone (ME-20B)
VHF telescopic dipole antenna (AN-16)
UHF loop antenna (AN-15)
Antenna connector (EAC-25)
Remote commander (RM-702)
Channel number segments
Instruction manual

## NEW DEVICE DESCRIPTION

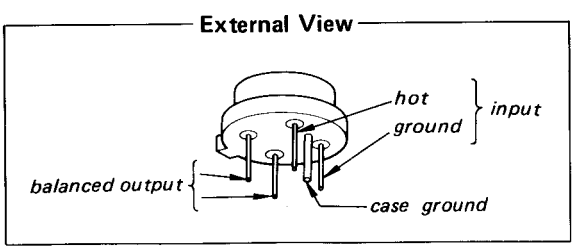
### SAWF: Surface Acoustic-Wave Filter

SAWF (SF201) is used for VIF filter in this set instead of L/C filters.

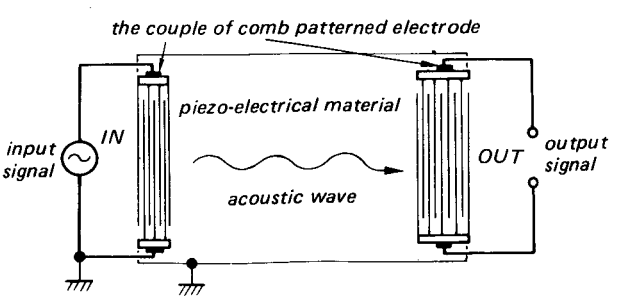
The SAWF consists of two couple of comb patterned electrodes. One is at input side, other at output side. The electrical input signal is changed to the acoustic signal at the input electrodes. The changed acoustic signal is transmitted on the surface of piezo-electrical material. Then the acoustic signal is changed to the electrical signal at the output electrodes.



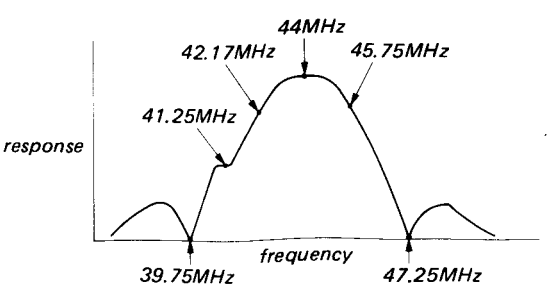

A Board VIF Circuit




— Internal Structure & Principle —

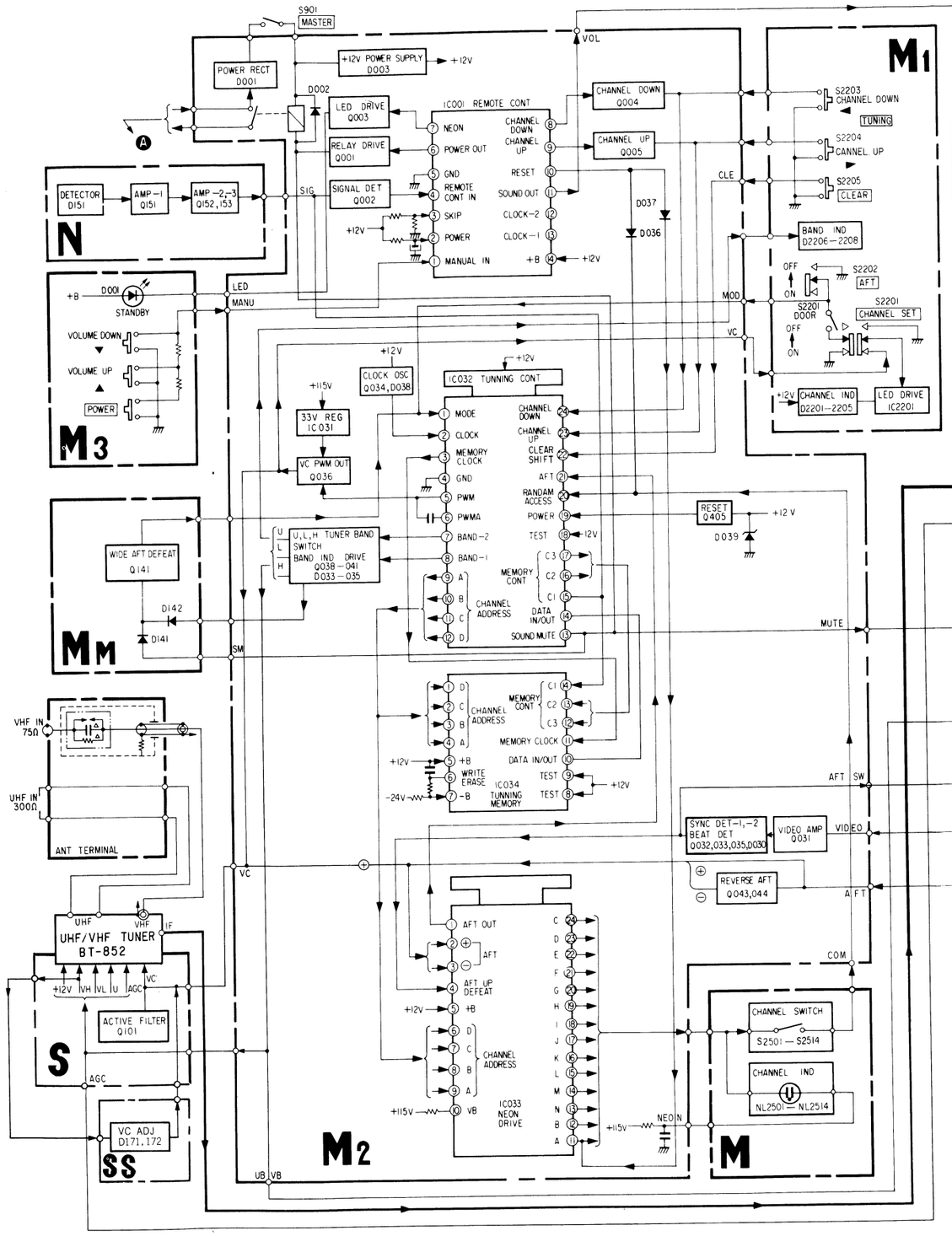



— Frequency-Response Diagram —



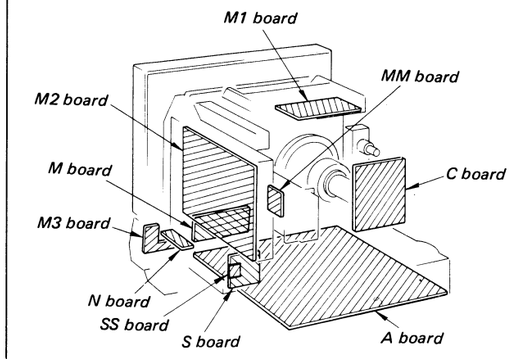
# SECTION 1
# OUTLINE

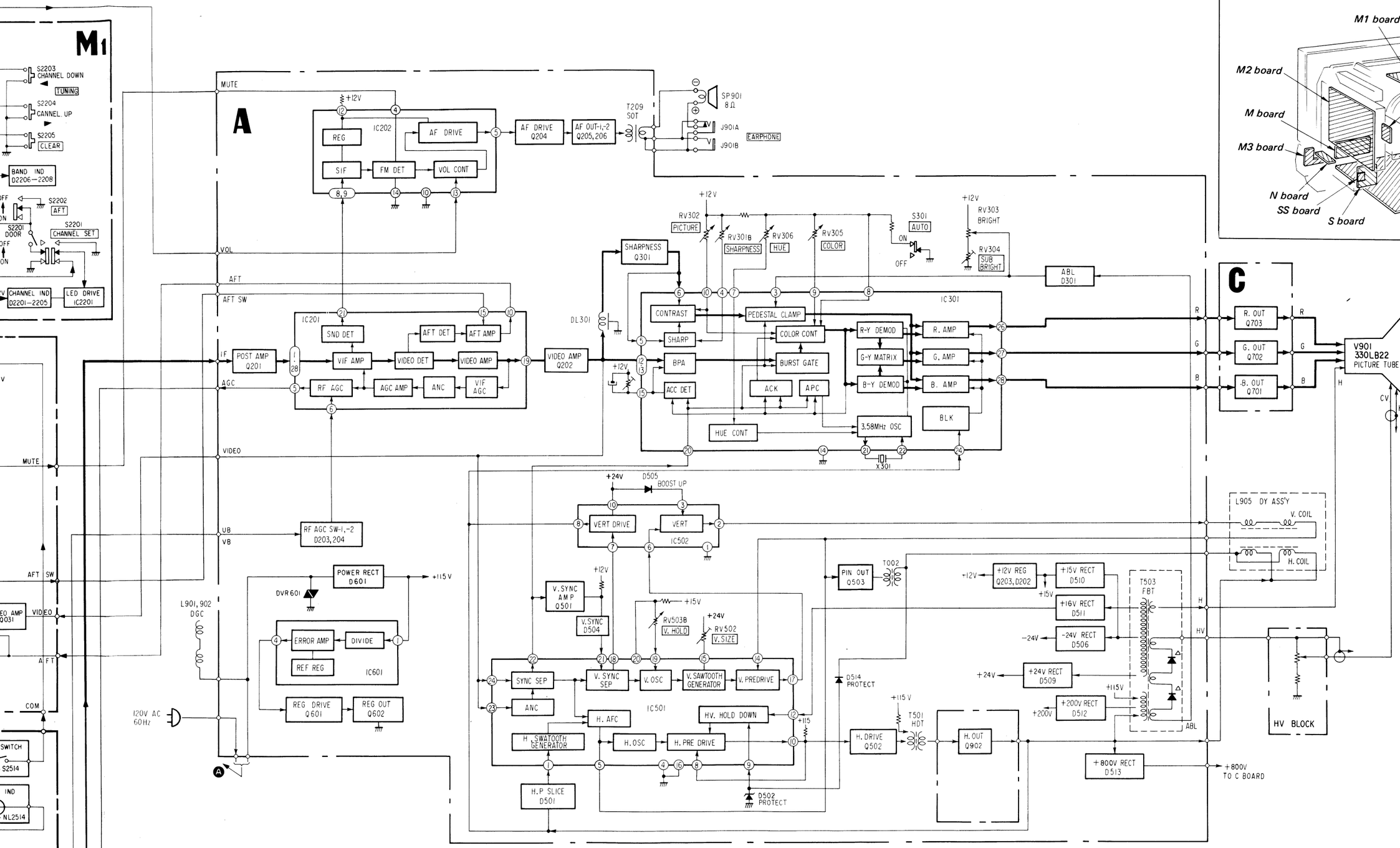
## 1-1. BLOCK DIAGRAM



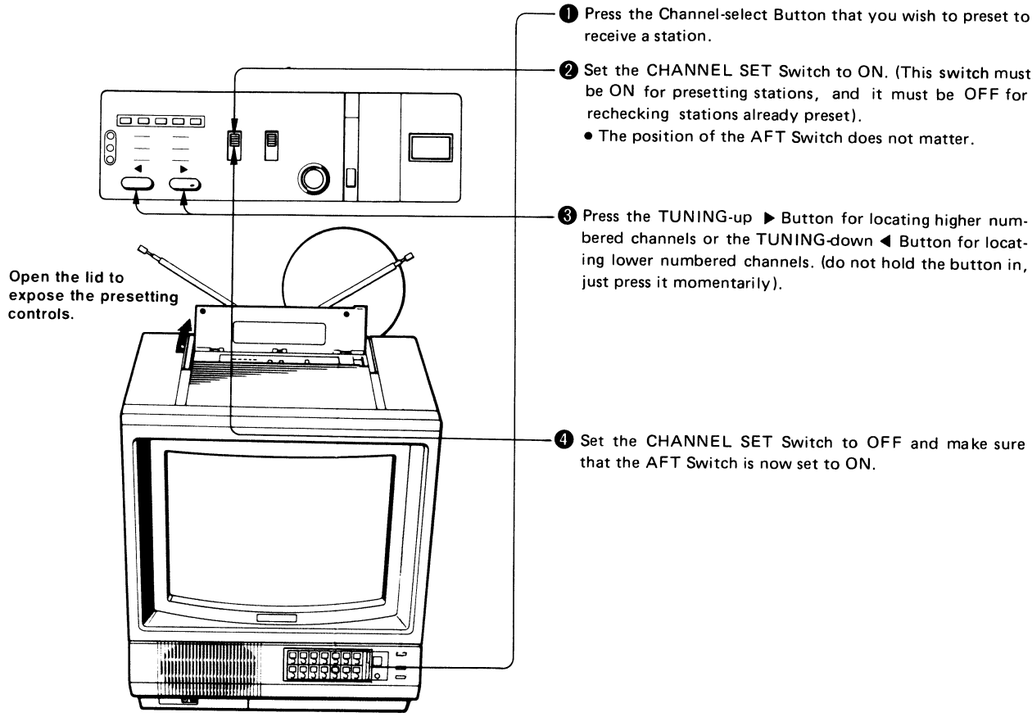
SCC-266C-A KV-1221R

## CIRCUIT BOARDS LOCATION



### 1-2. CHANNEL PRESETTING




❶ Press the Channel-select Button that you wish to preset to receive a station.

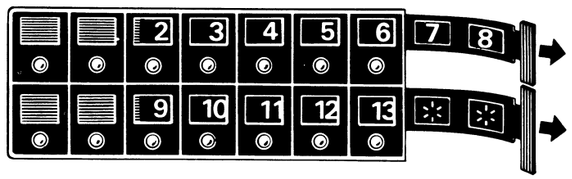
❷ Set the CHANNEL SET Switch to ON. (This switch must be ON for presetting stations, and it must be OFF for rechecking stations already preset).
- The position of the AFT Switch does not matter.

❸ Press the TUNING-up ▶ Button for locating higher numbered channels or the TUNING-down ◀ Button for locating lower numbered channels. (do not hold the button in, just press it momentarily).

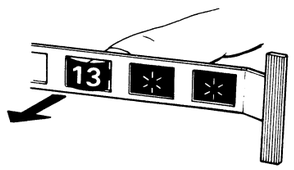
❹ Set the CHANNEL SET Switch to OFF and make sure that the AFT Switch is now set to ON.

### 1-3. CHANNEL NUMBER SEGMENT SETTING

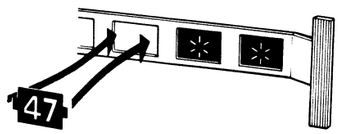
❶ Remove the Channel Indicator Sheets.




❷ Press the segment out from the rear.




❸ Install the correct number segment.




❹ Replace the sheets in the original position.

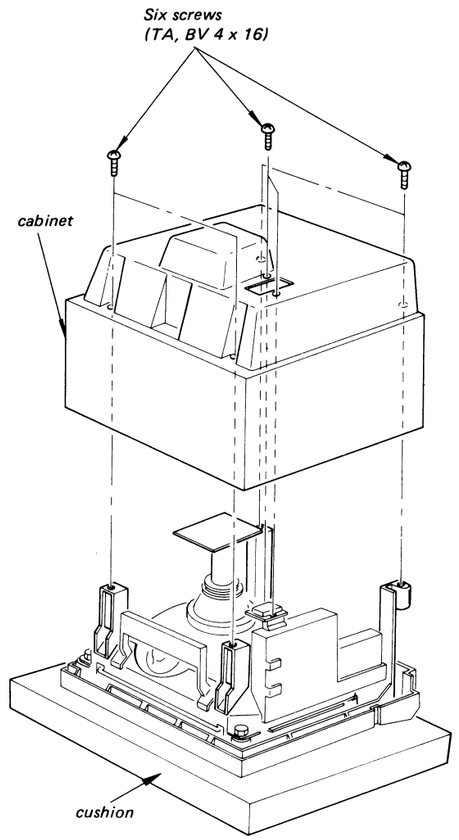




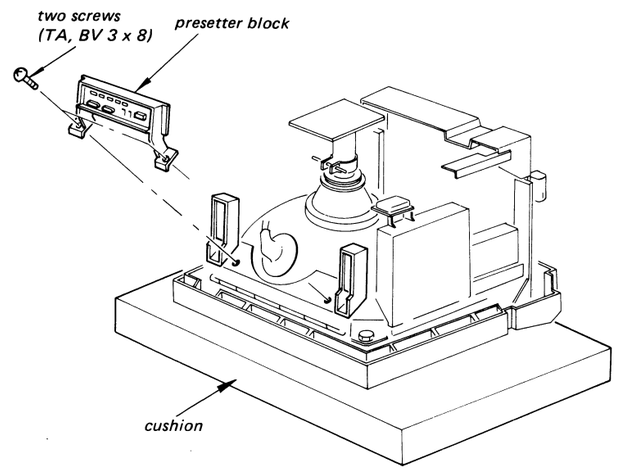
## SECTION 2
## DISASSEMBLY

**Note:** • Follow the disassembly procedure in the numerical order given.

### 2-1. CABINET REMOVAL




### 2-2. PRESET SECTION REMOVAL



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# DISASSEMBLY

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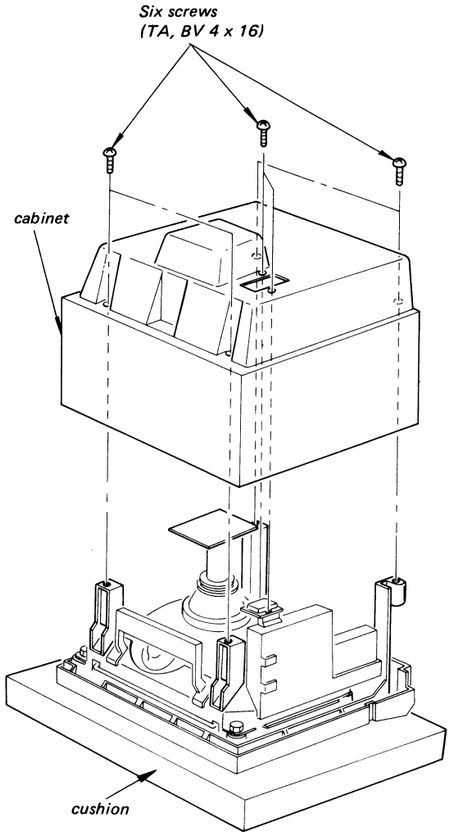
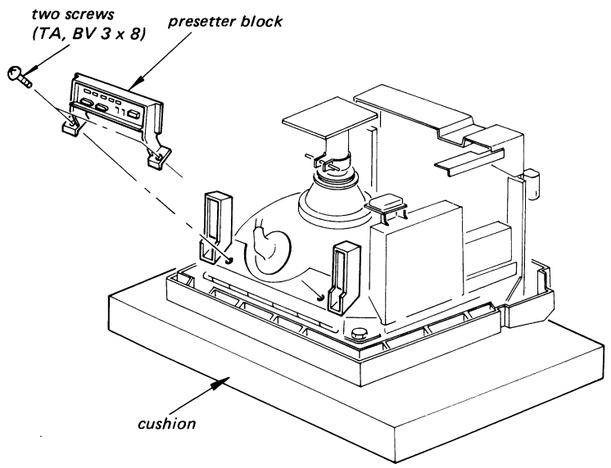
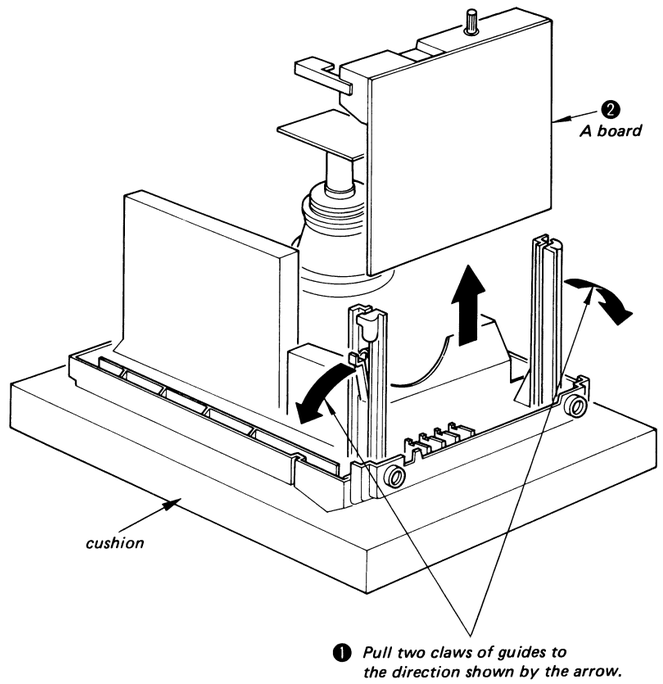



## 2-2. PRESET SECTION REMOVAL



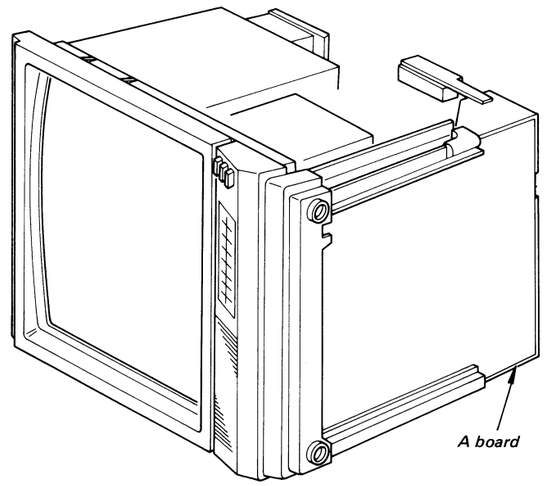



## 2-3. A BOARD REMOVAL

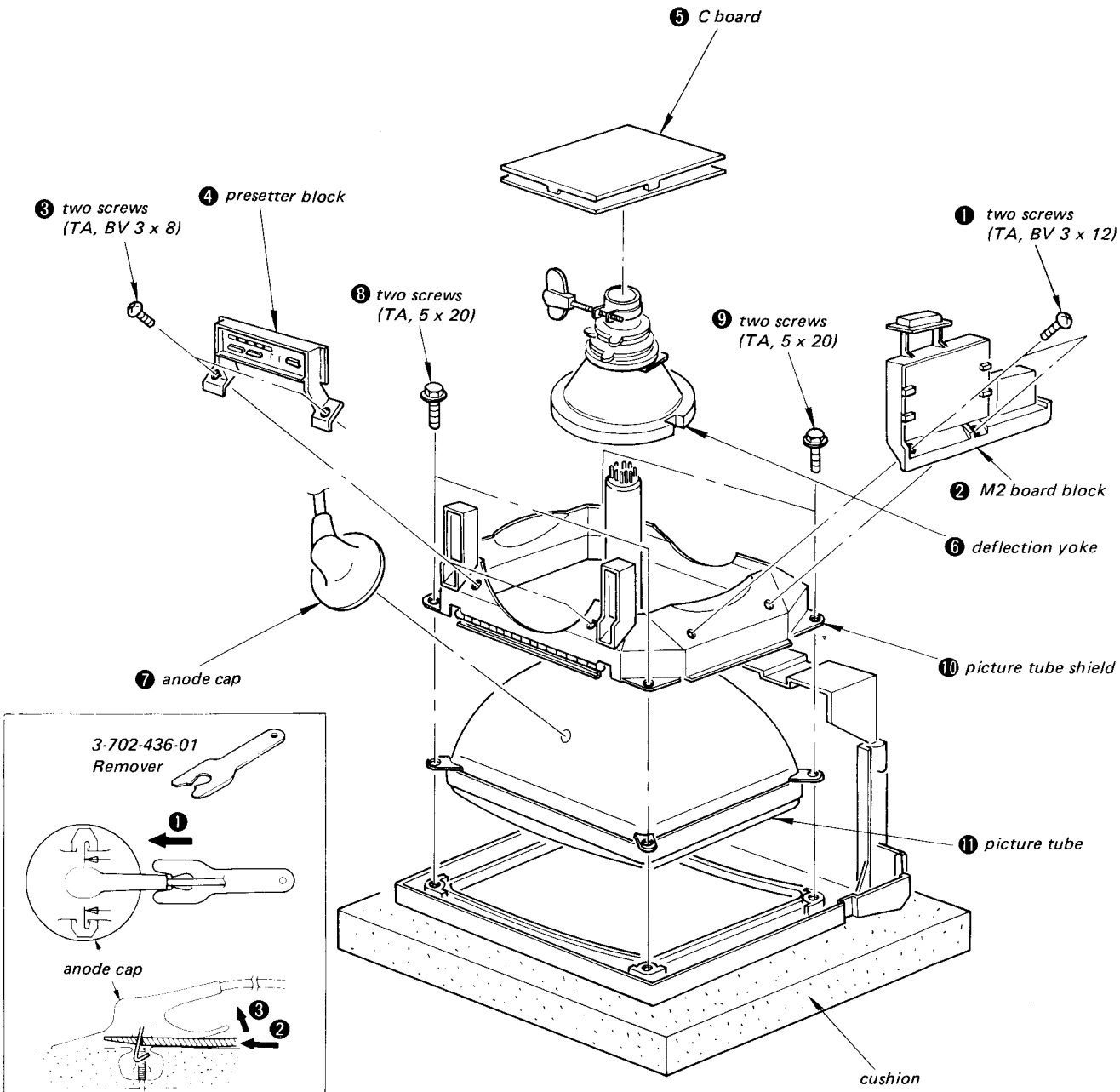



❶ *Pull two claws of guides to the direction shown by the arrow.*

## 2-4. FOR CHECKING A BOARD UP



## 2-5. PICTURE TUBE REMOVAL


❺ C board
❸ two screws (TA, BV 3 x 8)
❹ presetter block
❽ two screws (TA, 5 x 20)
❾ two screws (TA, 5 x 20)
❶ two screws (TA, BV 3 x 12)
❷ M2 board block
❻ deflection yoke
❼ anode cap
❿ picture tube shield
⓫ picture tube
cushion
3-702-436-01
Remover
anode cap
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

# SECTION 3
# SETUP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control . . . . .maximum (fully clockwise)
BRIGHT control . . . . . .maximum (fully clockwise)
AFT switch . . . . . ON (close channel presetting compartment lid)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

**Note:** Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

## 3-1. BEAM LANDING

**Preparation:**

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 3-1.
3. Slide deflection yoke as far forward as it will go.
4. Disconnect leads Ⓑ and Ⓖ on the C board.
5. Adjust purity control to center vertical red band as shown in Fig. 3-2.
6. Slide deflection yoke back for a uniform red screen.
7. Check green and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.
   To get a uniform green screen,
   connect lead Ⓖ on the C board and disconnect leads Ⓡ and Ⓑ
   To get a uniform blue screen,
   connect lead Ⓑ on the C board and disconnect leads Ⓡ and Ⓖ
   After these checks, connect the leads Ⓡ , Ⓖ and Ⓑ
8. Tighten the deflection yoke screw.
9. Check if mislanding appears at corners a–d as shown in Fig. 3-3. If mislanding is observed, correct it as shown in Fig. 3-3.
10. Confirm that beam landing is correct when the receiver is faced in all directions.

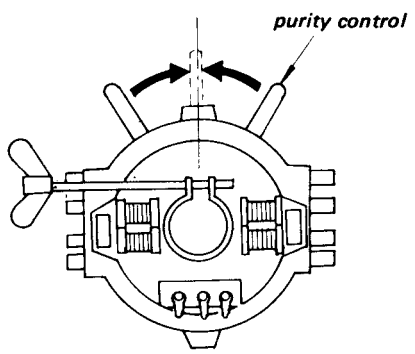


Fig. 3-1.

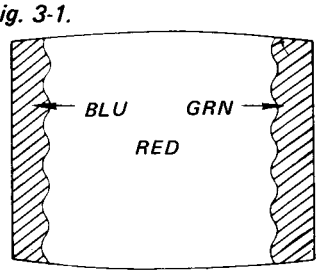


Fig. 3-2.

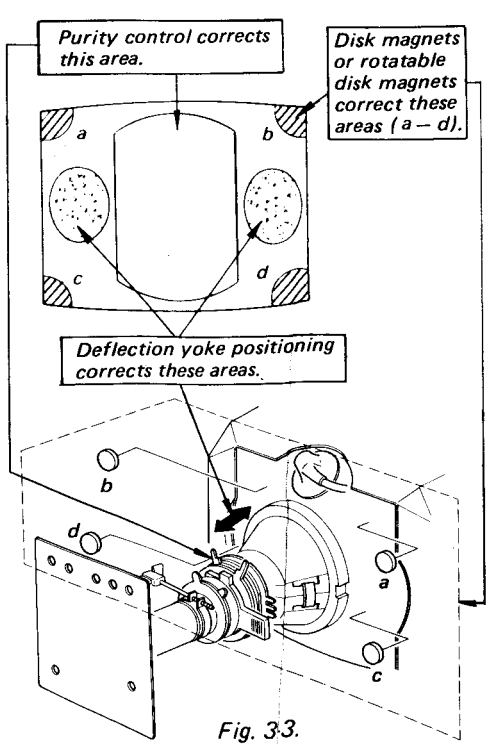
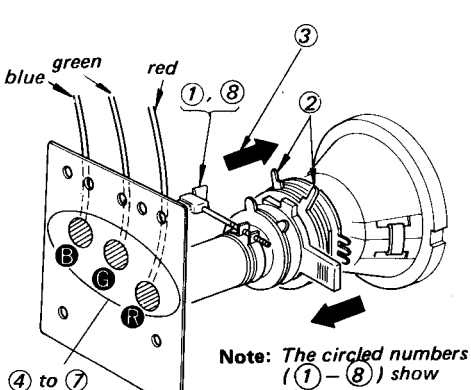


Fig. 3-3.



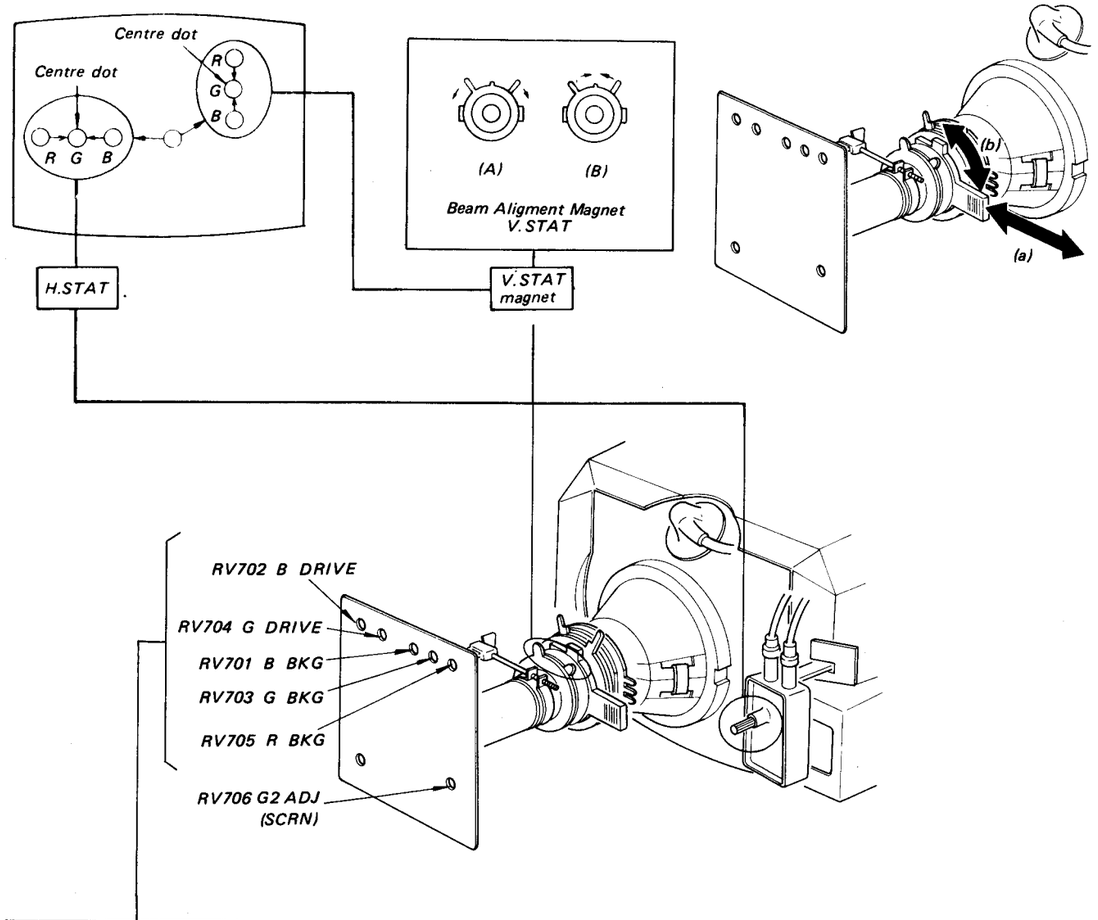
**Note:** *The circled numbers (① – ⑧) show above steps*

## 3-2. CONVERGENCE

**Preparation:**

- Before starting, perform FOCUS, H.SIZE and V.SIZE adjustments.
- Set BRIGHT control to fully counterclockwise.
- Feed in the dot patter.

**(1) Horizontal and Vertical Static Convergence**




If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

## 3-3. WHITE BALANCE

Feed in the cross-hatch pattern.

1. Turn PICTURE and BRIGHT controls fully counterclockwise.
2. Turn RV702 (B.DRIVE) and RV704 (G. DRIVE) fully clockwise.
3. Set RV701 (B.BKG), RV703 (G.BKG), and RV705 (R.BKG) to mechanical center.
4. Turn RV706 (SCRN) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV706. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn PICTURE and BRIGHT controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

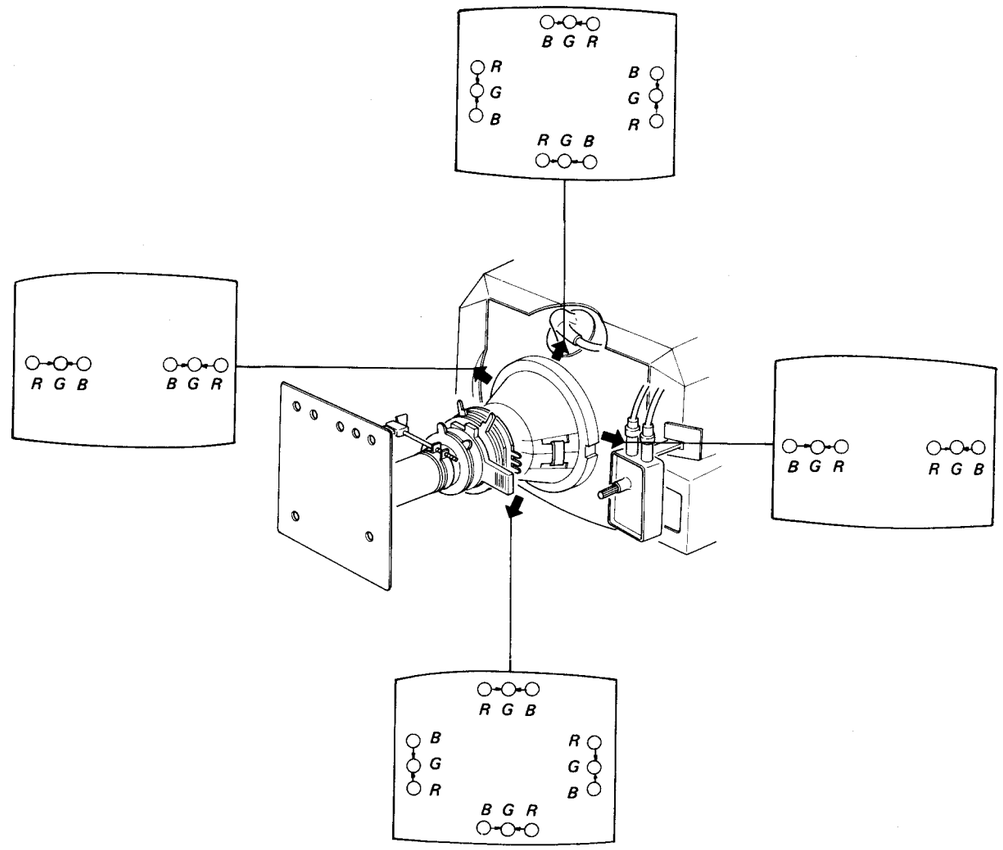


**(2) Dynamic Convergence Adjustment**

**Preparation:**

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



# SECTION 4
# CIRCUIT ADJUSTMENTS

**Note: (1) TEST EQUIPMENT REQUIRED**

1. Oscilloscope
2. Digital multimeter
3. Color-bar/pattern generator
4. Variable auto-transformer
5. Isolation transformer
6. Regulated-dc power supply

**(2) INPUT SIGNAL**

When making these adjustments, supply a color-bar or an off-air signal.

**(3) CONTROL SETTINGS**

Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control, BRIGHT control, COLOR control } Set for best picture
V.HOLD control . . . . . .Set for stable picture
AFT switch. . . . . ON (close channel presetting compartment lid)

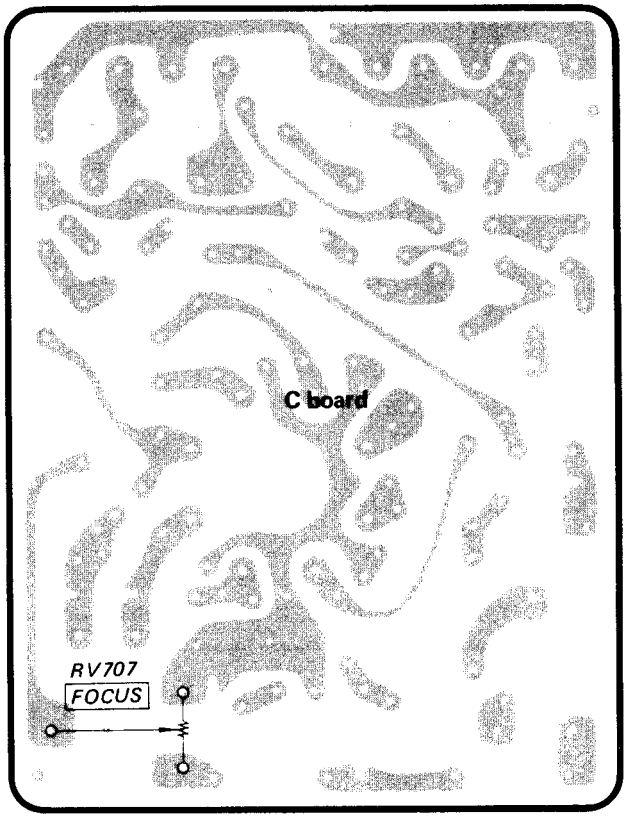
**(4)** These adjustments should be performed with the rated power supply voltage unless otherwise noted.

**(5) CIRCUIT ADJUSTMENTS**

| Adjustment | Circuit Board | Page |
|---|---|---|
| FOCUS | C | 14 |
| VC ADJ | SS | 14 |
| R563 adjustment | A | 15 – 17 |
| COLOR SYNC | | |
| H. FREQ | | |
| PIN AMP | | |
| SUB BRT | | |
| ACC | | |
| SIF | | |
| SUB CONTRAST | | |
| RF AGC | | |
| CHECK AFTER IC601 REPLACED | | |
| FREQ ADJ | $M_2$ | 18, 19 |
| CLOCK ADJ | | |

## 4-1. C BOARD ADJUSTMENT

FOCUS *Adjust RV707 for best focus.*



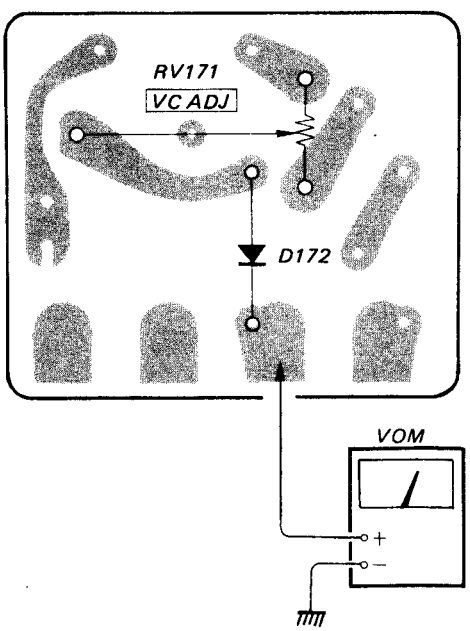

## 4-2. SS BOARD ADJUSTMENT

VC ADJ

1. *Turn RV171 for a minimum reading on VOM.*
2. *Slide the CHANNEL SET switch to ON and press the CLEAR and the TUNING ▶ buttons.*
3. *Slide the CHANNEL SET switch to OFF just when the yellow band indicator lamp lights.*
4. *Feed in the TV signal (fv = 169.25MHz).*
5. *Adjust RV171 for a best tuning position.*
6. *Feed in an off-air signal and confirm that the channel-7 is properly received.*

*Simple Method:*

1. *Turn RV171 for a minimum reading on VOM.*
2. *Feed in an off-air signal and receive the channel-7.*
3. *Note the voltage to subtract 1.5V from the VOM reading.*
4. *Slide the CHANNEL SET switch to ON and press the CLEAR button.*
5. *Press the TUNING ▶ button several times, until the yellow band indicator lamp lights. Slide the CHANNEL SET switch to OFF just when the yellow lamp lights.*
6. *Adjust RV171 for the noted voltage at step 3 on VOM.*
7. *Confirm that the channel-7 is properly received.*



## 4-3. A BOARD ADJUSTMENTS

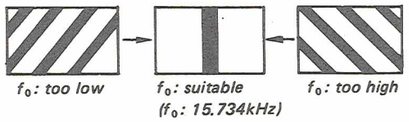
### R563 Adjustment

When replacing the following components, make this adjustment.
D502, C505, IC501, R508, R528, R529, R563

1. Supply the 18.2 to 18.4 V dc to TP85 with the regulated-dc power supply and confirm that the HV hold down circuit operates.
   (When the HV hold down circuit operates, raster disappears.)
   Note: As soon as the HV hold down circuit operates, turn the POWER switch OFF.
2. Supply the 119 to 121 V dc to TP91 (115V line) with the regulated-dc power supply and confirm that the set is normally operated on any of all channels.
   (The HV hold down circuit does not operated.)
3. When the set is normally operated with 120 V ac, confirm that the voltage at TP85 is 13.5 to 16.5 V dc.
4. If steps 1 to 3 are not satisfied, select the resistance value of R563 and repeat above steps.

### H. FREQ

1. Tune in an off-air signal.
2. Adjust PICTURE, BRIGHT and V. HOLD control for the suitable and stable picture.
3. Short-circuit between the pins 24 of IC501 and ground with a jumper during this adjustment.
4. Adjust RV501 for the stable picture as shown.



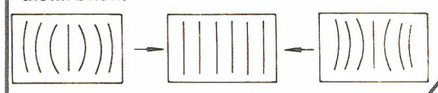

5. Confirm that the stable picture is obtained on other channels.

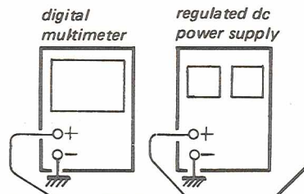
### COLOR SYNC

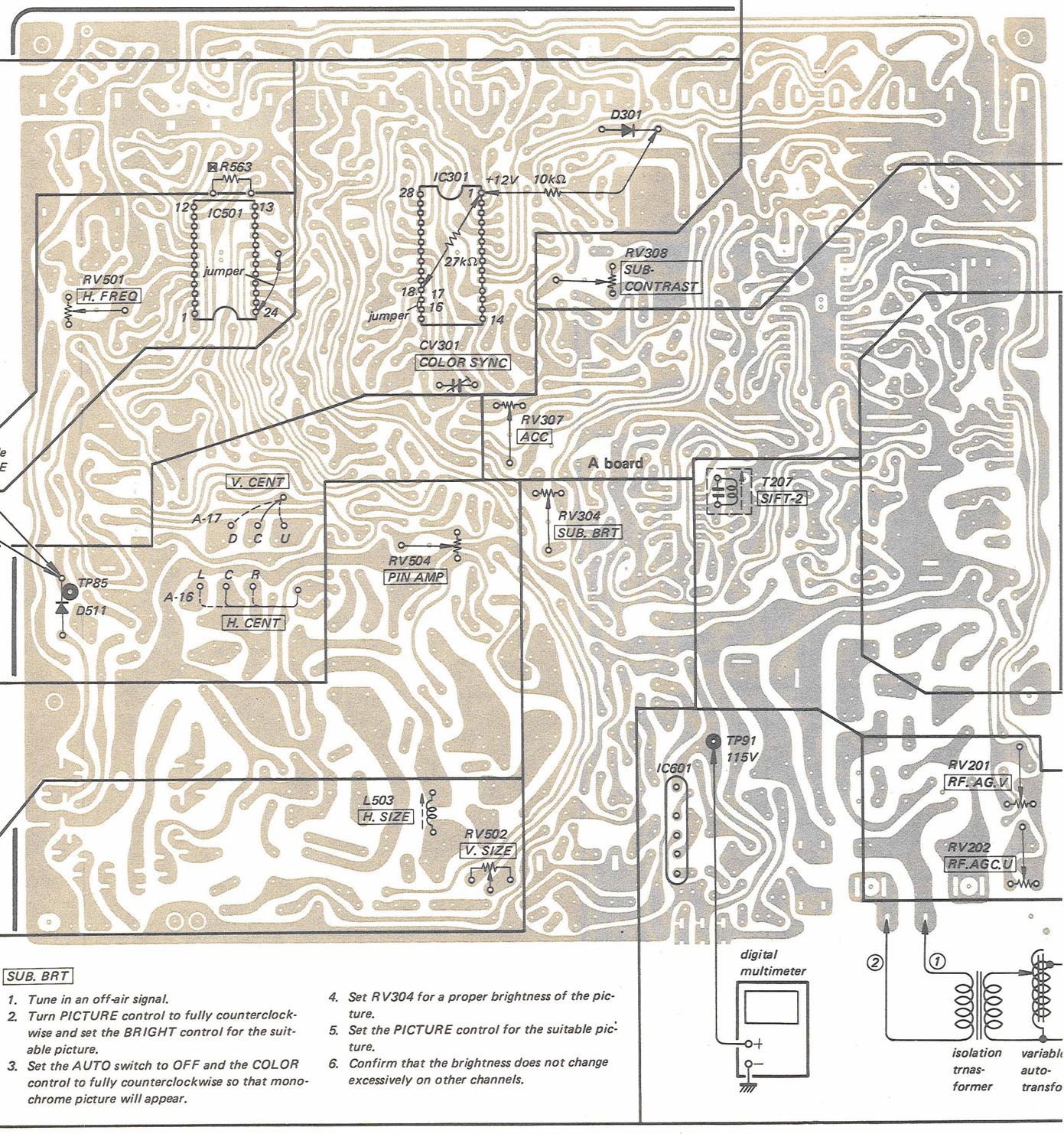
1. Feed in a color-bar signal from color-bar/pattern generator.
2. Set the switch and controls as shown below.
   AUTO switch ..... ON
   BRIGHT control } ..... mechanical center
   COLOR control }
   PICTURE control ..... fully clockwise
3. Connect a resistor (27kΩ) between the pins 18 and 1 of IC301.
4. Connect a resistor (10kΩ) between D301 cathode and pin 1 of IC301.
5. Short-circuit between the pins 16 and 17 of IC301 with a jumper.
6. Adjust CV301 to obtain the stable color picture.
7. Disconnect the 27kΩ resistor, 10kΩ resistor and the jumper.

### PIN AMP

Adjust RV504 to make vertical lines straight as shown below.

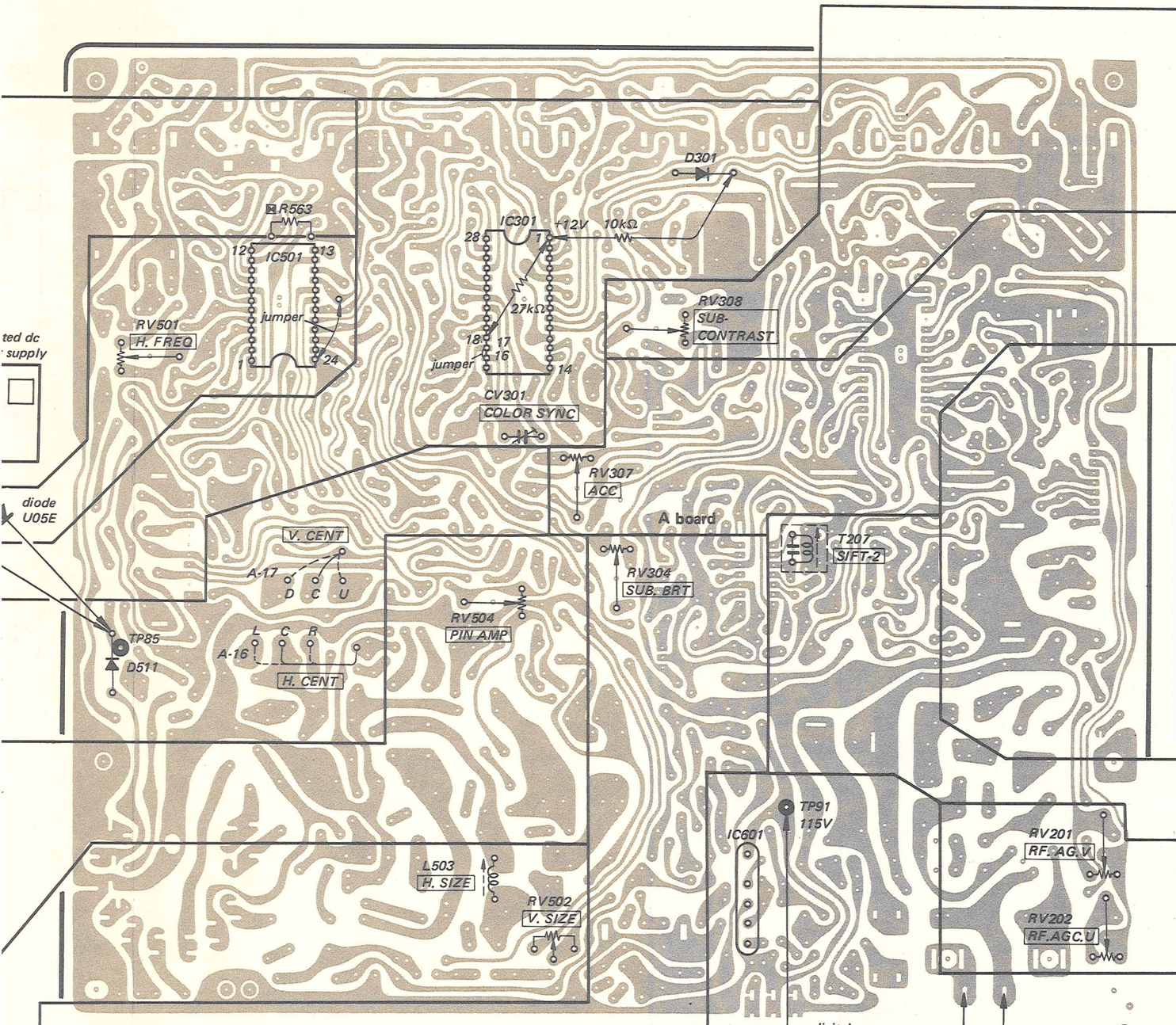





### SUB. BRT

1. Tune in an off-air signal.
2. Turn PICTURE control to fully counterclockwise and set the BRIGHT control for the suitable picture.
3. Set the AUTO switch to OFF and the COLOR control to fully counterclockwise so that monochrome picture will appear.
4. Set RV304 for a proper brightness of the picture.
5. Set the PICTURE control for the suitable picture.
6. Confirm that the brightness does not change excessively on other channels.




**SUB. CONTRAST**

1. Tune in an off-air signal.
2. Set the PICTURE and BRIGHT controls to the suitable picture.
3. Set AUTO switch to OFF and turn the COLOR control to counterclockwise to obtain the mono-chrome picture.
4. Adjust RV308 for the suitable picture contrast.
5. Confirm that contrast does not change excessively on other channels.

**ACC**

1. Tune in a strong off-air signal.
2. Set AFT switch to ON.
3. Set COLOR and PICTURE control to mechanical center.
4. Adjust RV307 for suitable color intensity.

**SUB. BRT**

1. Tune in an off-air signal.
2. Turn PICTURE control to fully counterclockwise and set the BRIGHT control for the suitable picture.
3. Set the AUTO switch to OFF and the COLOR control to fully counterclockwise so that mono-chrome picture will appear.
4. Set RV304 for a proper brightness of the picture.
5. Set the PICTURE control for the suitable picture.
6. Confirm that the brightness does not change excessively on other channels.

**SIF**

1. Tune in an off-air signal.
2. Adjust T207 for maximum clear-sound.

**RF AGC**

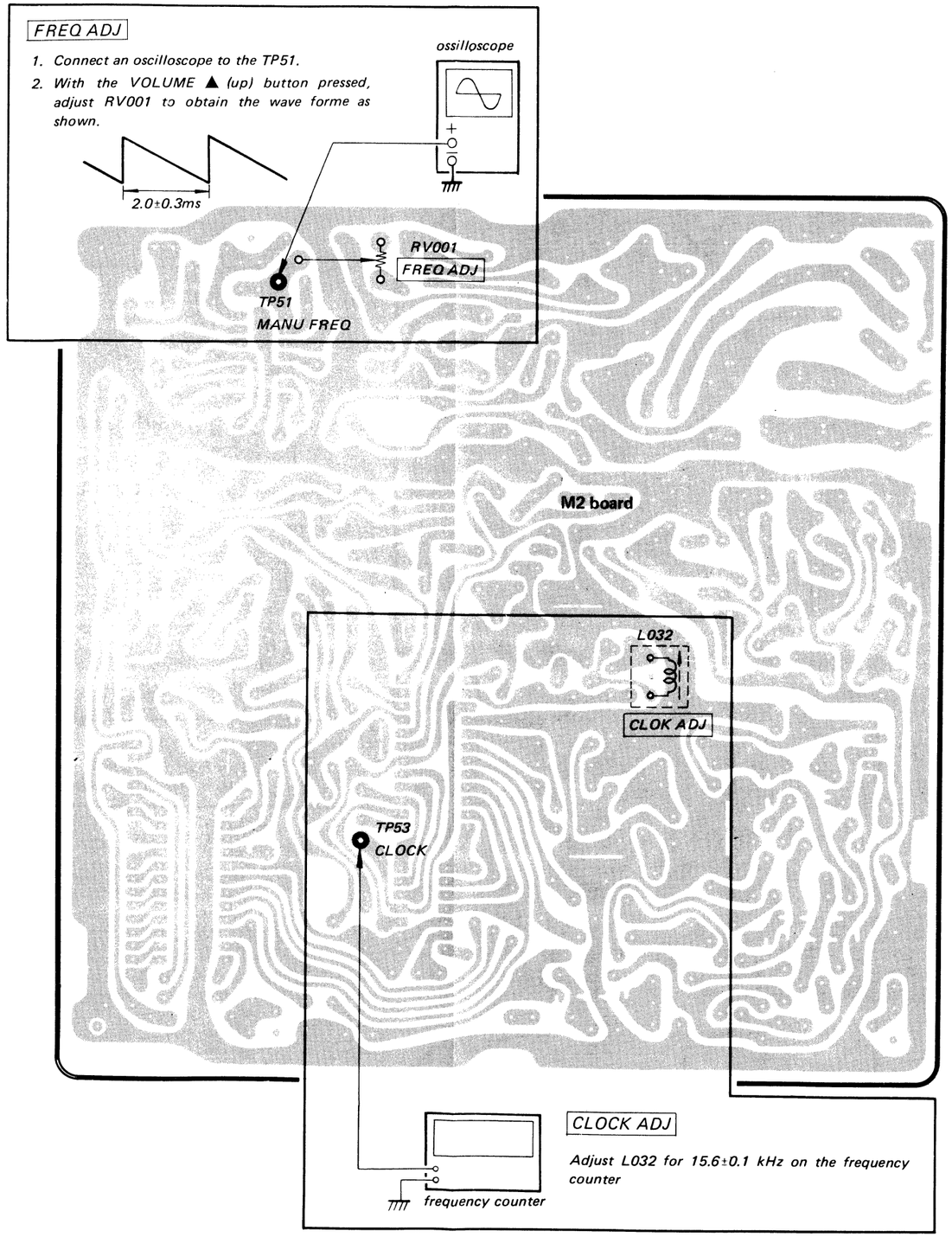
1. Tune in an off-air signal.
2. Adjust RV201 and RV202 so that snow-noise and cross-modulation just disappear from the picture.

**CHECK AFTER IC601 REPLACED**

When IC601 is replaced, make this check certainly.

1. Feed in a dot pattern signal from color-bar/ pattern generator.
2. Supply 130 V ac to the point as shown with variable auto-transofrmer.
3. Set the BRIGHT control to mechanical center.
4. Set the PICTURE control to mechanical center.
5. Confirm the voltage on digital multimeter is less than 117V dc.
6. If step 5 is not satisfied, replace IC601 and repeat above steps.

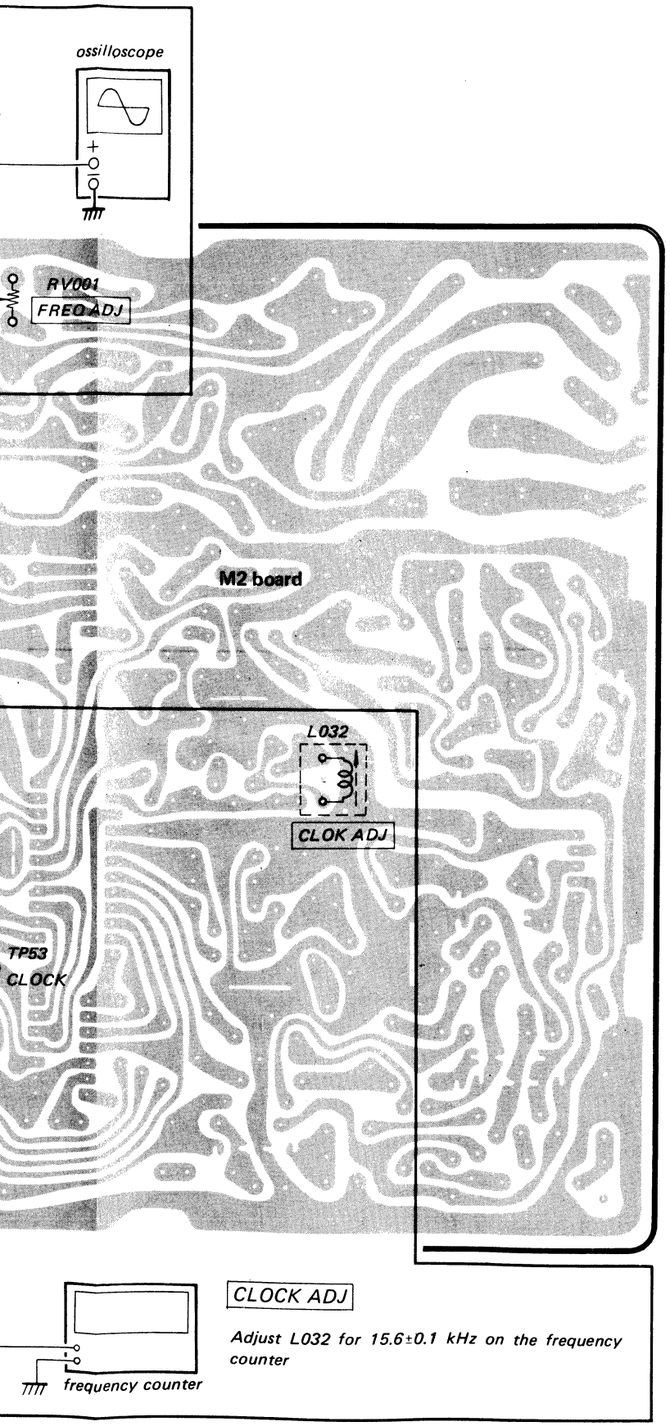
## 4-4. M2 BOARD ADJUSTMENTS








5-1.



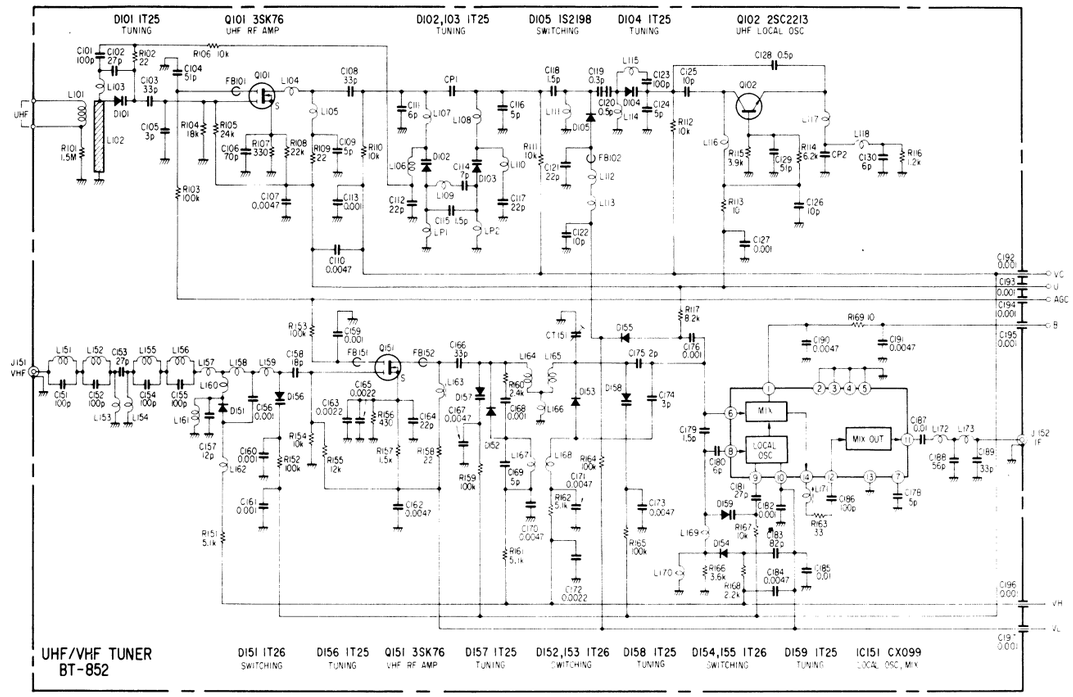

CLOCK ADJ

*Adjust L032 for 15.6±0.1 kHz on the frequency counter*



# SECTION 5
# DIAGRAMS

## 5-1. UHF/VHF TUNER SCHEMATIC DIAGRAM




- Tuner reference numbers are not included in the Electrical Parts List.

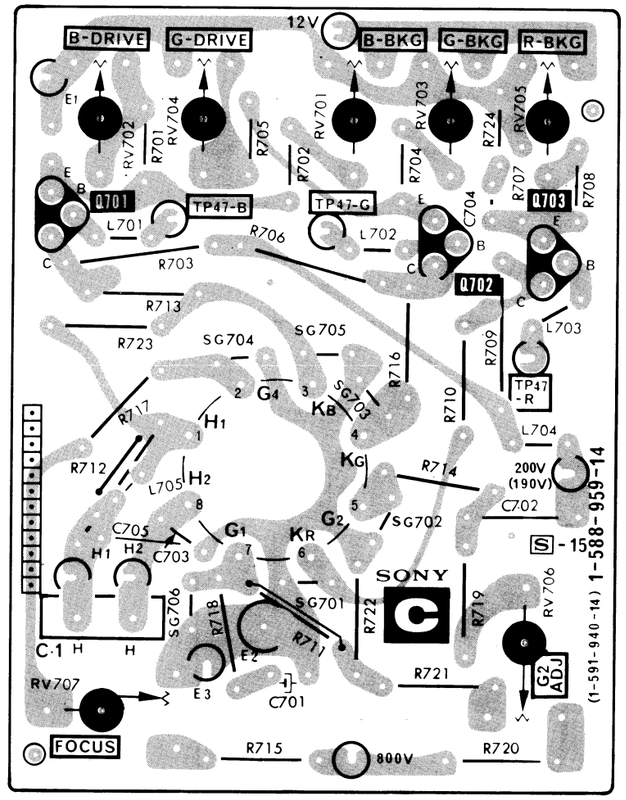
## 5-2. MOUNTING DIAGRAM — *Conductor Side* —

[R, G, B OUT] **C**

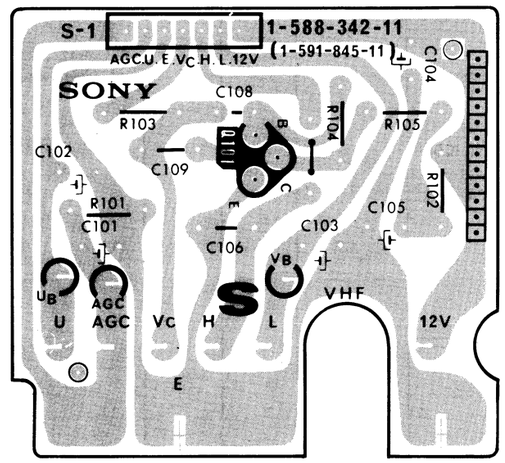
**S** [TUNER, ACTIVE FILTER]

**SS** [VC ADJ]

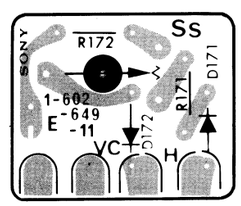
— C Board —




— S Board —




— SS Board —

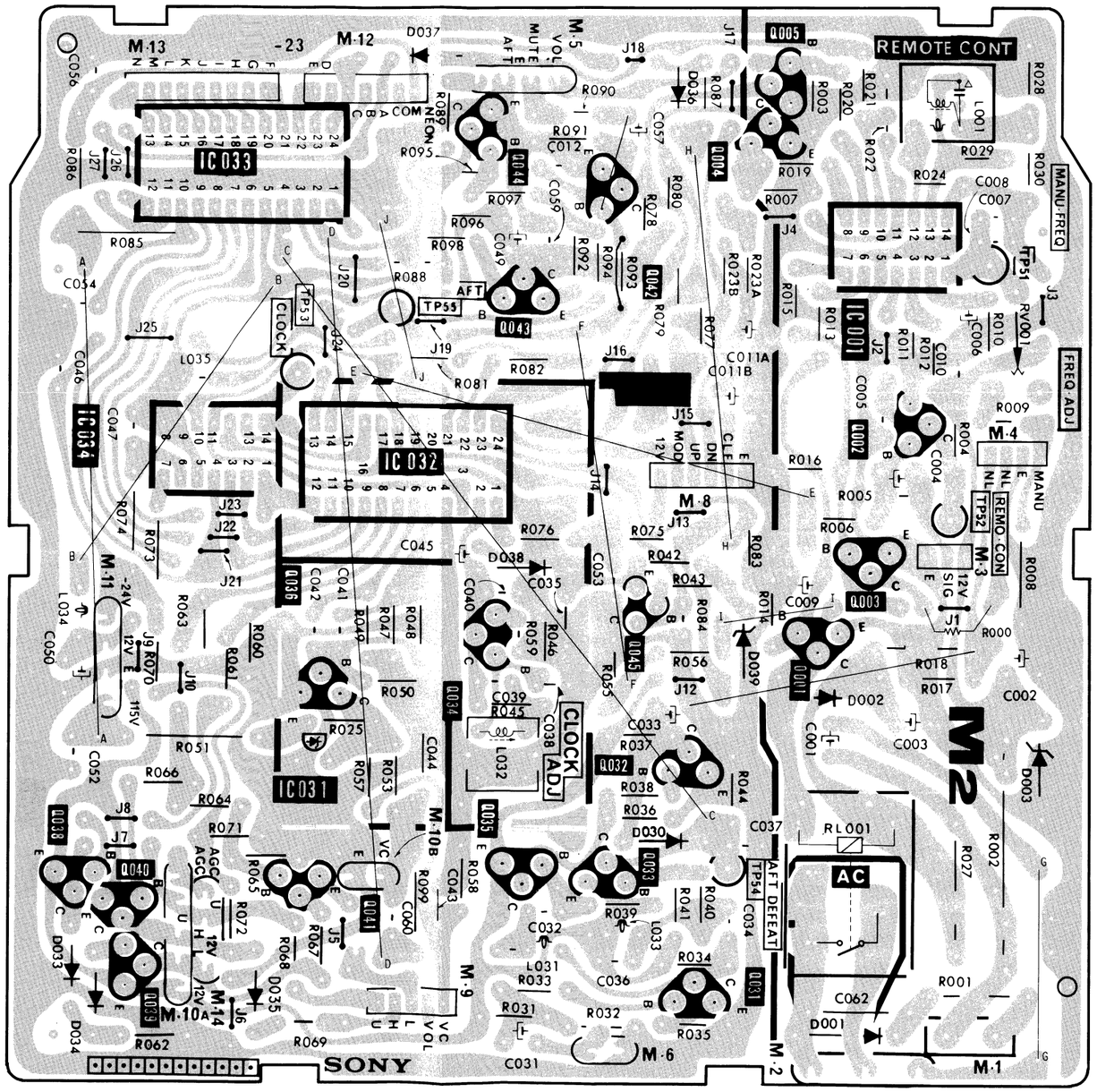


# M2 M2

BAND SWITCH, TUNING MEMORY
REMOTE CONT, NEON DRIVE,
TUNING CONT

— M2 Board —

| Q , IC | D | ADJ |
|---|---|---|
| | 037 | |
| 005 | 036 | |
| 044, 004 | | |
| IC033 | | |
| 042 | | |
| IC001 | | |
| 043 | | |
| | | RV001 |
| 002 | | |
| IC034 | | |
| IC032 | | |
| 003 | | |
| 045 | 038 | |
| 034 001 | 039 | |
| 036 | 002 | |
| 032 | 003 | L032 |
| IC031 | | |
| 038,041,035 | 030 | |
| 040 033 | | |
| 039 | 033 | |
| 031 | 034 035 | |
| | 001 | |
| Q , IC | D | ADJ |



[CHANNEL PRESET] **M1**

[CHANNEL SELECT, INDICATOR LAMP] **M**

[SWITCH] **M3**

**MM** [WIDE AFT DEFEAT]

**N** [DETECTOR, INF AMP]

A B C D

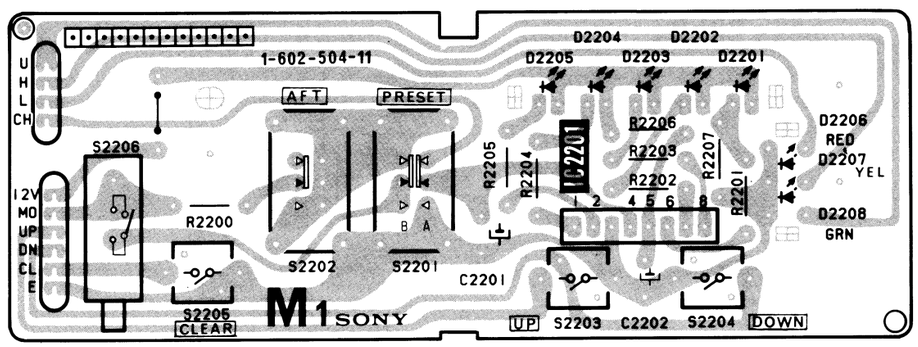
1

2

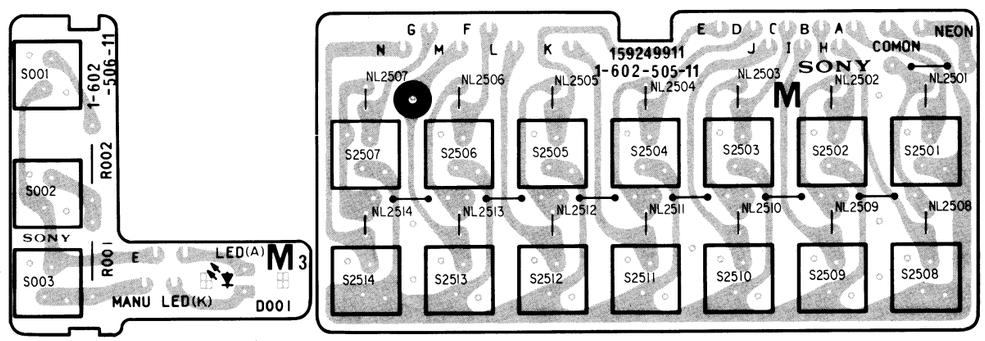
3

4

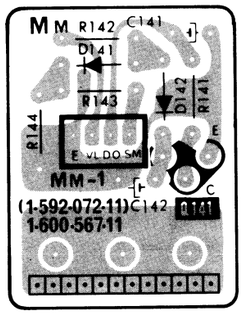
— M1 Board —



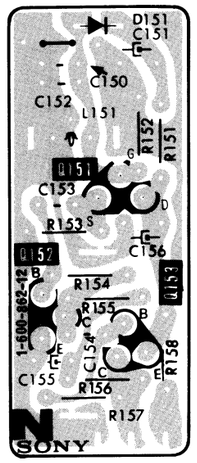

— M and M3 Board —




— MM Boards —




— N Board —

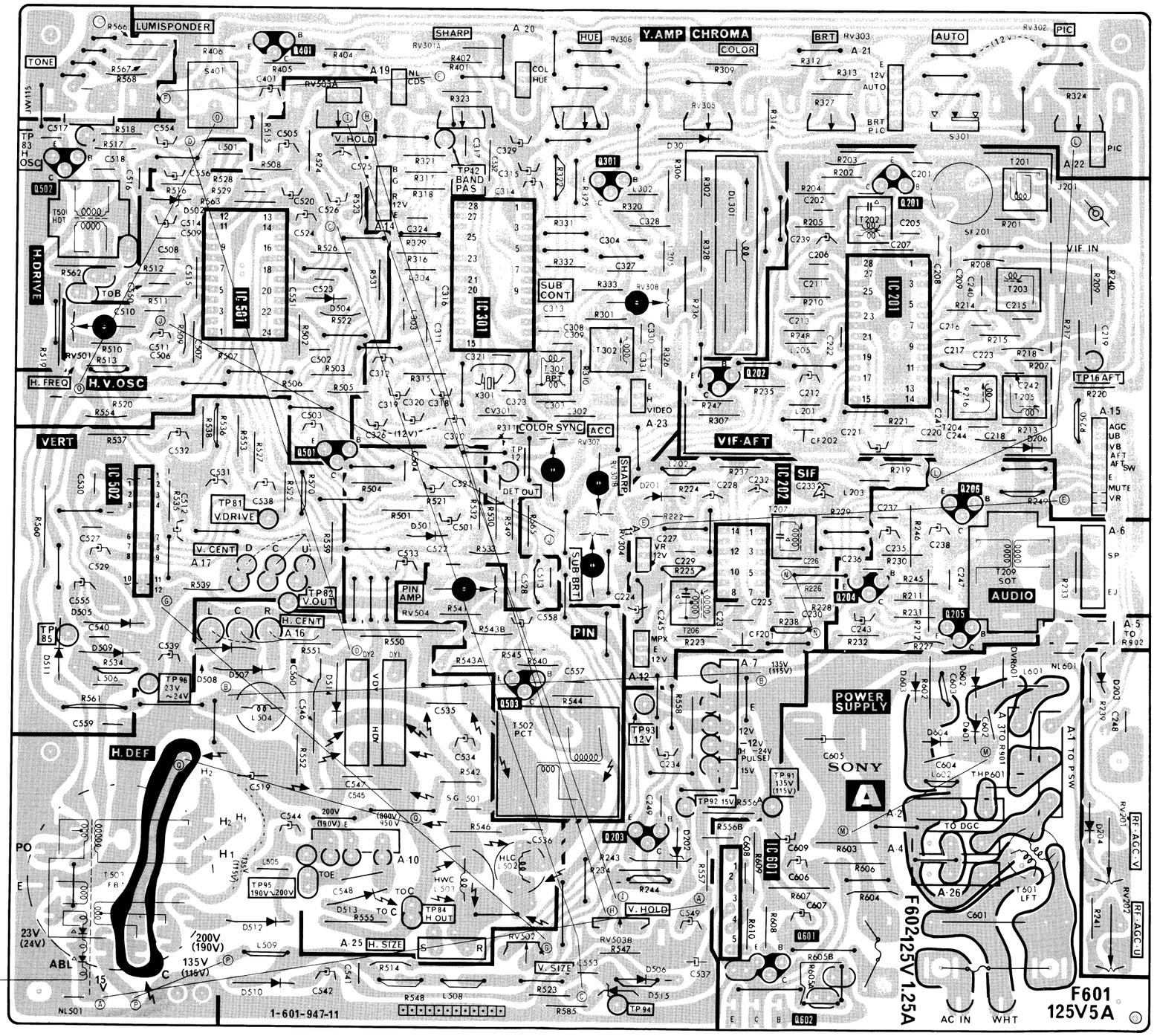


# A A VIF, SIF, CHROMA, Y.AMP, H.DEF, V. DEF, AF.OUT, CUSTOMER CONTROL, POWER SUPPLY

– A Board –

| IC | Q | D | ADJ |
|---|---|---|---|
| | 401 | | |
| | | 301 | |
| | 502<br>301,201 | | |
| | | 502 | |
| 501,301<br>201 | | | |
| | | 504 | RV308 |
| | | | RV501 |
| | 202 | | |
| | | | CV301<br>RV307 |
| | 501 | 206 | |
| | 206 | 201 | |
| | | | T207 |
| | | | RV301B |
| 502<br>202 | | 501 | RV304 |
| | 204 | | |
| | | | RV504 |
| | 205 | | |
| | | 505 | T206 |
| | | 508<br>511,509 | |
| | 503 | 507<br>203<br>603,602<br>514<br>601<br>604 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | 203 | 204 | |
| | | 202 | |
| | | | RV201 |
| | | 513 | L503 |
| 601 | | | |
| | | 512 | |
| | 601 | | RV502<br>RV202 |
| | | 506<br>510 , 515 | |
| | 602 | | |

| IC | Q | D | ADJ |
|---|---|---|---|



## 5-3. SCHEMATIC DIAGRAM

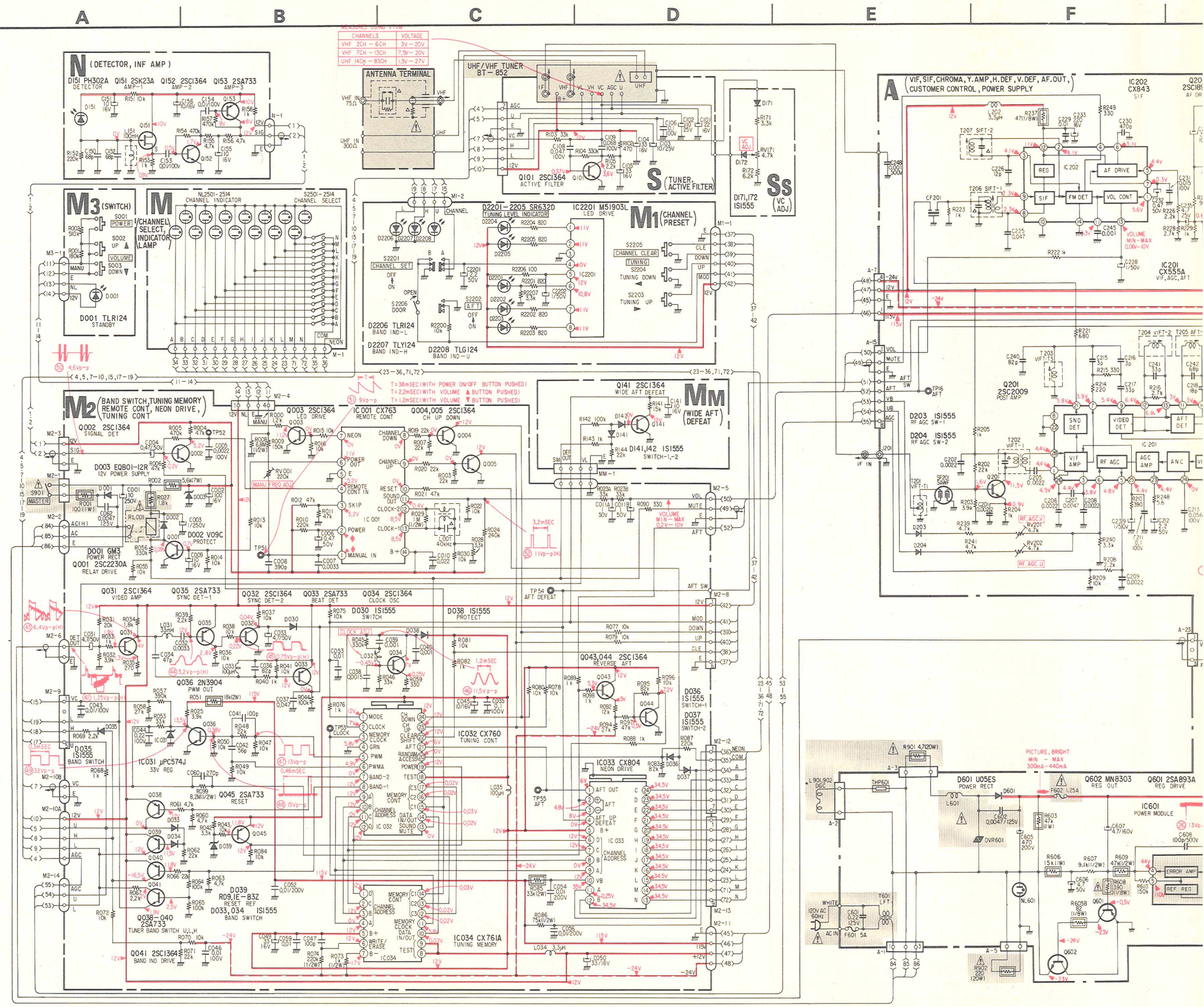
**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

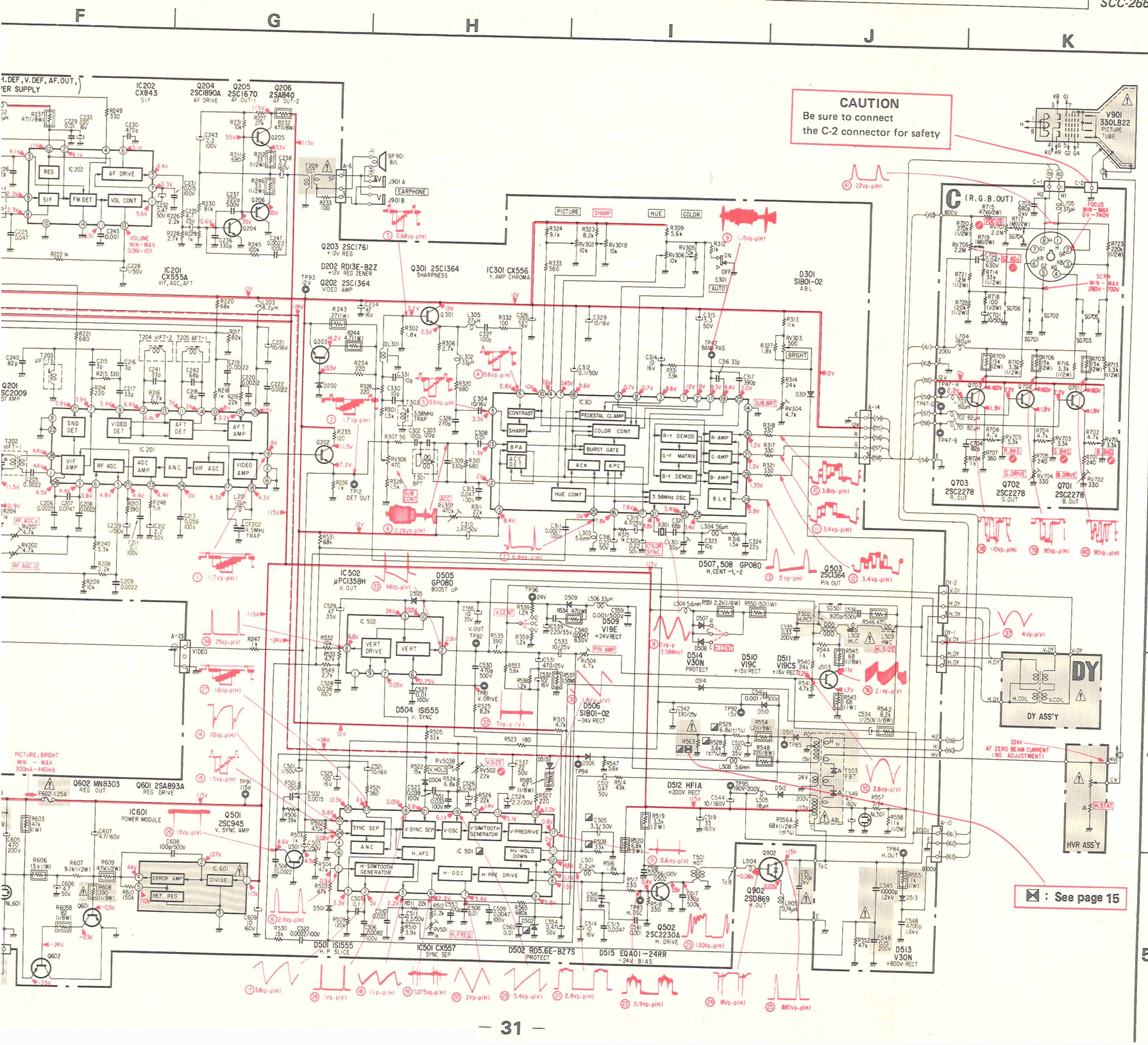
**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ: 1000 Ω, MΩ: 1000 kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the spedified value is achieved. (Refer to R563 adjustment on page 15).
  When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (◪) | Adjustment |
|---|---|
| C505, D502, IC501, R508, R528, R529, R563 | R563 adjustment |

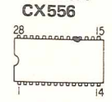
- Voltages are dc with respects to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltages on M2 board are taken with set selected to channel A (VHF) position.
- Voltage variations may be noted due to normal production tolerances.
- Do not touch the terminal 1 and 2 of IC001 marked ♦ on M2 board with VOM probe, as B+ voltage will not be supplied to the set.



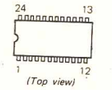




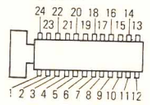

CX555A
CX556A
CX556



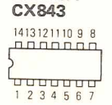

CX557



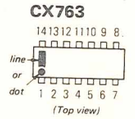

CX760
CX804



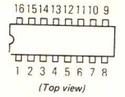

CX761A
CX843




CX763

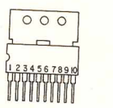



CX772

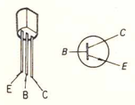



M51903L

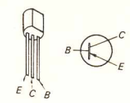
μPC1358H



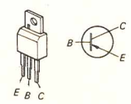

2N3904



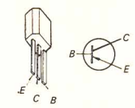

2SA733
2SA840
2SA893A



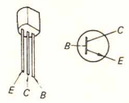

2SA835



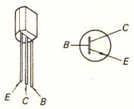

2SA1027R



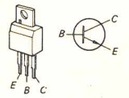

2SC945
2SC1670
2SC1890A
2SC2230A



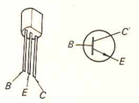

2SC1364



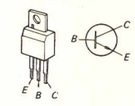

2SC1761
2SC1962



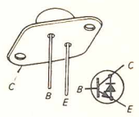

2SC2009



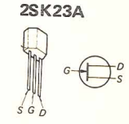

2SC2278



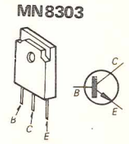

2SD869
2SD870



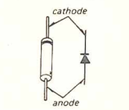

2SK23A



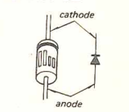

MN8303



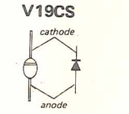

1S1555
RD5.6E-B2Z
RD5.6E-BZ7S
RD9.1E
RD9.1E-B3Z
RD13E
RD13E-B2Z



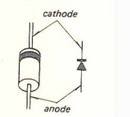

EQA01-24RR
EQB01-12R
EQB01-12Z
EQB01-24
SIB01-02



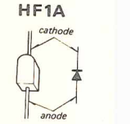

GH3F
GM3
U05ES
U05G
V09C
V19C
V19E
V30N
V19CS



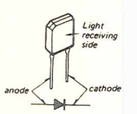

GP08D



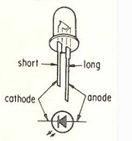

HF1A



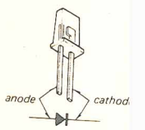

PH302A



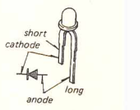

SE303A



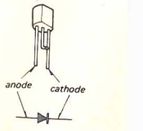

SR632D




TLG124
TLR124
TLY124



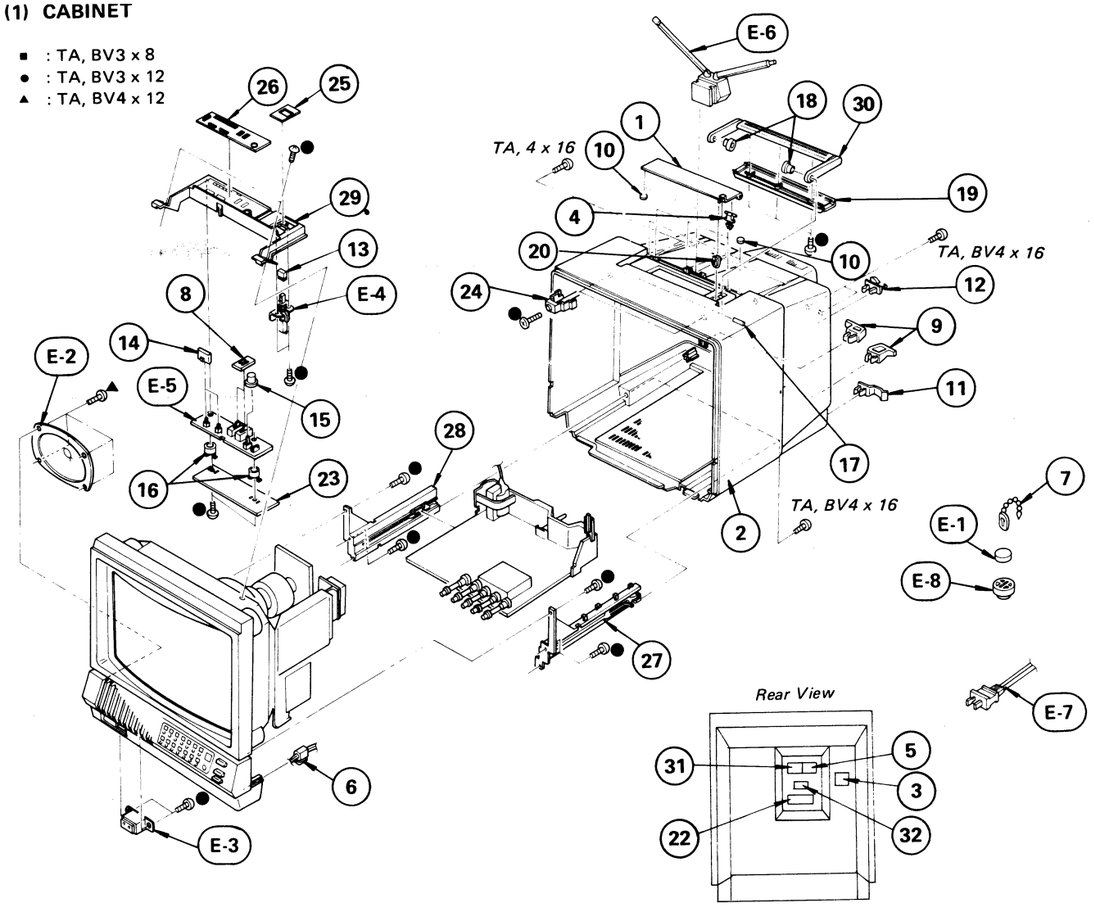

μPC574J



# SECTION 6
# EXPLODED VIEWS

## (1) CABINET

■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12




| No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-4344-005-0 | DOOR ASSY, PRESET | 61 |
| 2 | X-4344-009-0 | CABINET ASSY | 52,55,60, 61,62,63, 68,69,70, 71,75,81, |
| 3 | 3-701-043-00 | LABEL, CSA VIDEO | |
| 4 | 3-703-035-11 | SHAFT, LID | |
| 5 | 3-703-281-00 | LABEL, DOC (A) | |
| 6 | ⚠ 4-316-102-00 | HOLDER, AC CORD | |
| 7 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 8 | 4-314-869-00 | INSULATOR,SLIDE SWITCH | |
| 9 | 4-316-003-00 | HOLDER, CORD | |
| 10 | 4-316-264-11 | CUSHION | |
| 11 | 4-329-127-00 | CLAMPER, CORD | |
| 12 | 4-329-439-00 | CLAMPER, FEEDER | |
| 13 | 4-333-101-00 | PUSH BUTTON | |
| 14 | 4-335-304-00 | BUTTON, TUNING | |
| 15 | 4-335-306-00 | BUTTON, CLEAR | |
| 16 | 4-335-705-00 | SPACER | |
| 17 | 4-335-706-00 | SHAFT, HANDLE | |
| 18 | 4-335-709-00 | BUSHING | |
| 19 | 4-336-839-00 | ORNAMENT (LOWER), HANDLE | |
| 20 | 4-342-511-00 | RETAINER, DOOR | |
| 22 | ●:4-344-034-00 | LABEL, MODEL NUMBER | |
| 23 | ●:4-344-003-00 | COVER, INSULATING | |
| 24 | 4-344-004-00 | STOPPER, ROD | |
| 25 | 4-344-008-00 | LABEL, SWITCH | |
| 26 | 4-344-025-00 | LABEL, PRESET | |
| 27 | ●:4-344-026-00 | GUIDE (RIGHT), CHASSIS | |
| 28 | ●:4-344-027-00 | GUIDE (LEFT), CHASSIS | |
| 29 | 4-344-028-00 | HOUSING, PRESET | |
| 30 | 4-344-030-00 | HANDLE | |
| 31 | 3-701-829-01 | LABEL, X-RAY CERTIF | |
| 32 | 3-703-228-00 | LABEL, CAUTION | |

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

## (2) MASK

■ : TA, BV
● : TA, BV
▲ : TA, BV

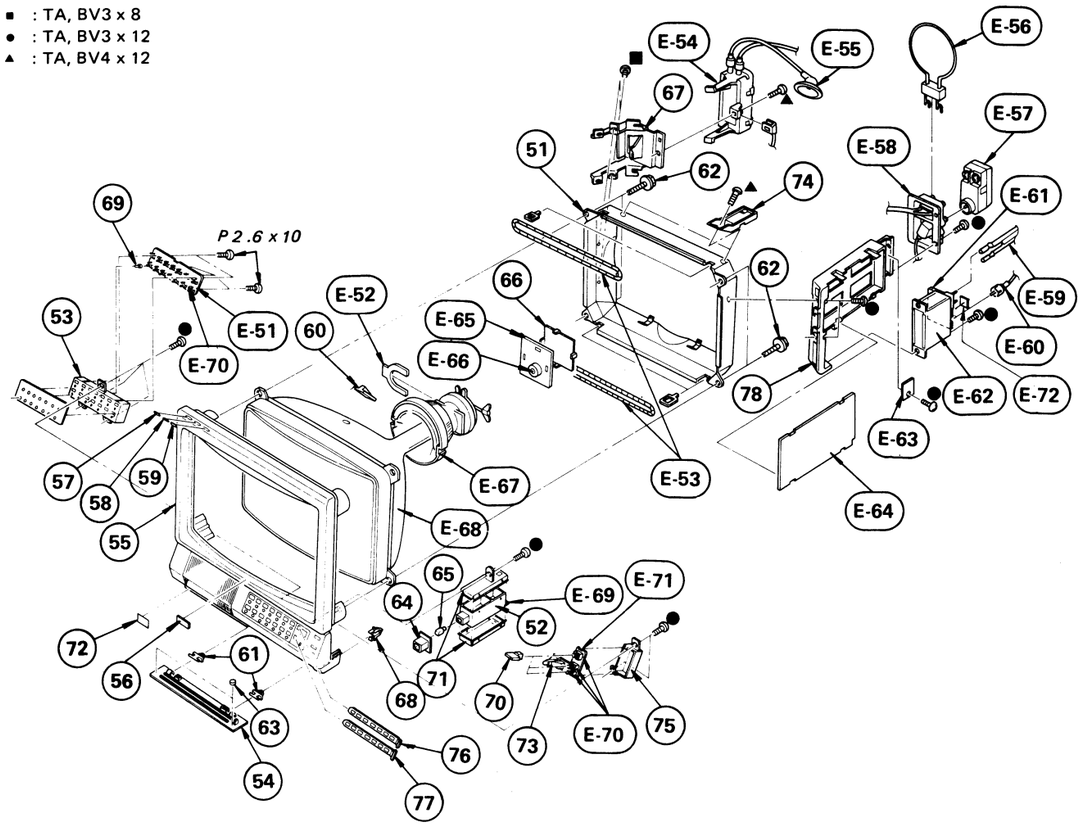
| No. | Par |
|---|---|
| 51 | ●:X-4 |
| 52 | ●:X-4 |
| 53 | X-4 |
| 54 | X-4 |
| 55 | X-4 |
| 56 | 3-7 |
| 57 | 3-7 |
| 58 | 3-7 |
| 59 | 3-7 |
| 60 | 3-7 |
| 61 | 3-7 |
| 62 | 4-3 |
| 63 | 4-3 |

NOTE:
- Items w
- The con

**Note: Les compos marque ⚠ s remplacer q spécifié.**

## (2) MASK

■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12




| No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | ⚠:X-4320-005-0 | SHIELD ASSY, PICTURE TUBE | |
| 52 | ⚠:X-4344-003-0 | CASE (MAIN) ASSY, SHIELD | |
| 53 | X-4344-004-0 | HOUSING ASSY, TUNING | |
| 54 | X-4344-006-0 | DOOR ASSY, SUB CONTROL | 13 |
| 55 | X-4344-008-0 | BEZEL ASSY | 4,6,7,8,9,11,18,22 |
| 56 | 3-701-845-00 | EMBLEM, SONY | |
| 57 | 3-701-911-01 | CHIP, COLOR; RED | |
| 58 | 3-701-911-11 | CHIP, COLOR; GREEN | |
| 59 | 3-701-911-21 | CHIP, COLOR; BLUE | |
| 60 | 3-703-003-00 | SPACER, DY | |
| 61 | 3-703-035-11 | SHAFT, LID | |
| 62 | 4-307-249-00 | SCREW, TAPPING, 5X20 | |
| 63 | 4-316-264-11 | CUSHION | |
| 64 | ⚠:4-333-114-00 | COVER, RAY CATCHER | |
| 65 | 4-333-115-00 | TUBE, OPTICAL | |
| 66 | 4-335-329-00 | INSULATOR, C PC BOARD | |
| 67 | ⚠:4-335-338-00 | BRACKET, HV | |
| 68 | 4-342-511-00 | RETAINER, DOOR | |
| 69 | 4-344-005-00 | BUTTON, TUNING | |
| 70 | 4-344-006-00 | PUSH BUTTON | |
| 71 | ⚠:4-344-009-00 | LID, SHIELD CASE, RAY CATCHER | |
| 72 | 4-344-010-00 | LABEL, EARPHONE | |
| 73 | ⚠:4-344-013-00 | HOLDER, LED | |
| 74 | ⚠:4-344-016-00 | STAY | |
| 75 | ⚠:4-344-019-00 | BRACKET, VR | |
| 76 | 4-344-020-00 | HOLDER (U), LABEL | |
| 77 | 4-344-024-00 | HOLDER (L), LABEL | |
| 78 | ⚠:4-344-033-00 | BRACKET, M PC BOARD | |

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ⚠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

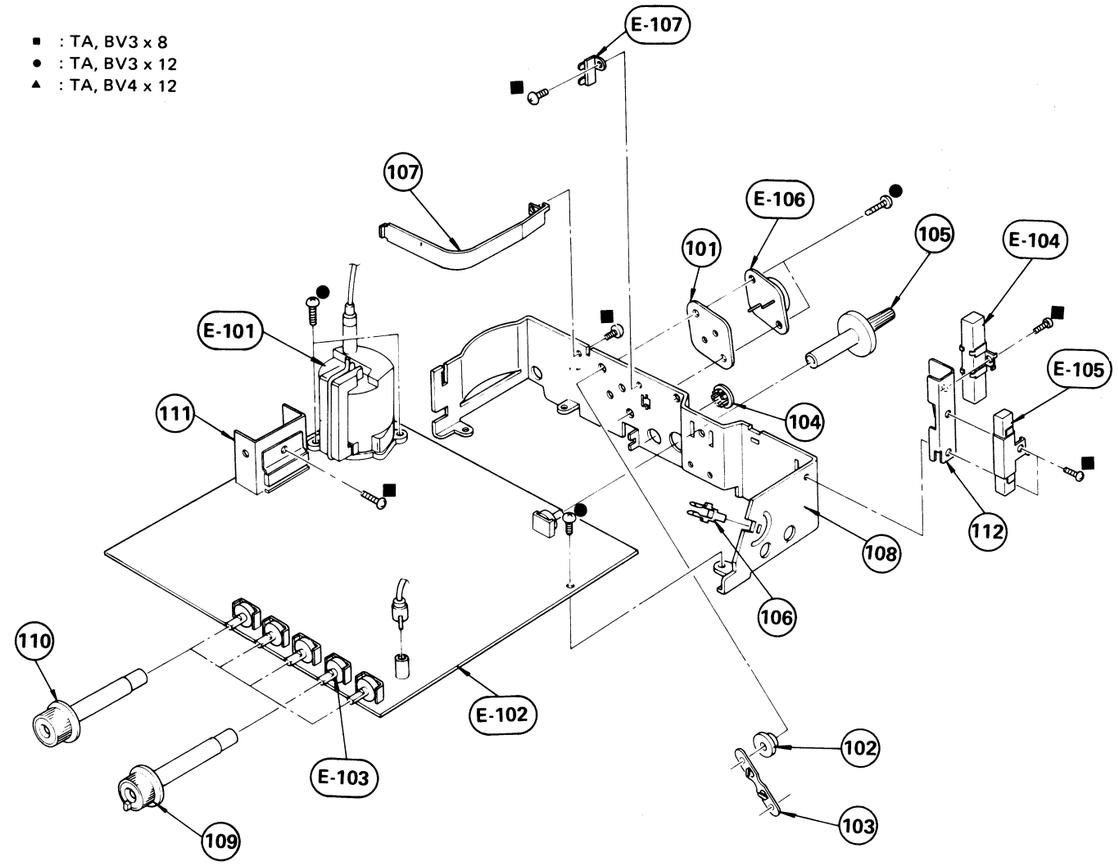
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**



## (3) A BOARD

■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12




| No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 3-701-353-00 | SPACER, MICA | |
| 102 | 3-703-320-00 | BUSHING (A), TRANSISTOR | |
| 103 | ⚠:4-302-432-00 | BRACKET, TRANSISTOR | |
| 104 | 4-328-903-00 | BUSHING, HEAT SINK | |
| 105 | 4-332-437-00 | KNOB, V-HOLD | |
| 106 | 4-333-157-00 | RETAINER, AC CORD | |
| 107 | ⚠:4-335-320-00 | RING, SHORT, FBT | |
| 108 | ⚠:4-335-339-00 | HEAT SINK | |
| 109 | 4-337-708-00 | KNOB, SELECTION | |
| 110 | 4-337-710-00 | KNOB, CONTROL | |
| 111 | ⚠:4-340-905-00 | HEAT SINK, V OUT | |
| 112 | ⚠:4-344-014-00 | BRACKET,RESISTOR,CEMENT-COATED | |

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ⚠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

# SECTION 7
# ELECTRICAL PARTS LIST

N M3 M C

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | ⏚:1-600-862-00 | N BOARD | | | E-69 |
| | ⏚:1-551-930-00 | CONNECTOR, 3P | | | |
| | ⏚:4-330-112-00 | CAP, SHIELD | | | |
| | ⏚:4-330-114-00 | COVER, RAY CATCHER | | | |
| | ⏚:4-333-185-00 | PLATE, SHIELD; COIL | | | |
| | ⏚:4-344-009-00 | LID, SHIELD CASE; RAY CATCHER | | | |
| | | CAPACITOR | | | |
| C150 | 1-102-525-00 | CERAMIC 68PF | 5% | 50V | |
| C151 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| C152 | 1-102-525-00 | CERAMIC 68PF | 5% | 50V | |
| C153 | 1-108-626-11 | MYLAR 0.01MF | 10% | 100V | |
| C154 | 1-108-626-11 | MYLAR 0.01MF | 10% | 100V | |
| C155 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| C156 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| | | DIODE | | | |
| D151 | 8-719-100-33 | DIODE PH302A | | | |
| | | COIL | | | |
| L151 | 1-409-315-00 | COIL | | | |
| | | TRANSISTOR | | | |
| Q151 | 8-722-381-20 | TRANSISTOR 2SK23A-812 | | | |
| Q152 | 8-729-663-47 | TRANSISTOR 2SC1364 | | | |
| Q153 | =>8-729-612-77 | TRANSISTOR 2SA1027R | | | |
| | | RESISTOR | | | |
| R151 | 1-246-497-00 | CARBON 10K | 1/4 W | 5% | |
| R152 | 1-246-529-00 | CARBON 220K | 1/4 W | 5% | |
| R153 | 1-246-473-00 | CARBON 1K | 1/4 W | 5% | |
| R154 | 1-246-537-00 | CARBON 470K | 1/4 W | 5% | |
| R155 | 1-246-489-00 | CARBON 4.7K | 1/4 W | 5% | |
| R156 | 1-246-489-00 | CARBON 4.7K | 1/4 W | 5% | |
| R157 | 1-246-537-00 | CARBON 470K | 1/4 W | 5% | |
| R158 | 1-246-473-00 | CARBON 1K | 1/4 W | 5% | |
| ********** | | | | | |
| | ⏚:1-602-506-00 | M3 BOARD | | | E-71 |
| | ⏚:1-555-198-00 | CONNECTOR, 4P | | | |
| | ⏚:4-344-013-00 | HOLDER, LED | | | |
| | | DIODE | | | |
| D001 | 8-719-812-41 | DIODE TLR124 | | | |
| | | RESISTOR | | | |
| R001 | 1-246-527-00 | CARBON 180K | 1/4 W | 5% | |
| R002 | 1-246-538-00 | CARBON 510K | 1/4 W | 5% | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | SWITCH | |
| S001 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S002 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S003 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| ********** | | | |
| | ⏚:1-602-505-00 | M BOARD | E-51 |
| | ⏚:1-551-939-00 | CONNECTOR, 9P | |
| | ⏚:1-555-341-00 | CONNECTOR, 7P | |
| | | NEON LAMP | |
| NL2501 | 1-519-194-00 | LAMP, NEON | |
| NL2502 | 1-519-194-00 | LAMP, NEON | |
| NL2503 | 1-519-194-00 | LAMP, NEON | |
| NL2504 | 1-519-194-00 | LAMP, NEON | |
| NL2505 | 1-519-194-00 | LAMP, NEON | |
| NL2506 | 1-519-194-00 | LAMP, NEON | |
| NL2507 | 1-519-194-00 | LAMP, NEON | |
| NL2508 | 1-519-194-00 | LAMP, NEON | |
| NL2509 | 1-519-194-00 | LAMP, NEON | |
| NL2510 | 1-519-194-00 | LAMP, NEON | |
| NL2511 | 1-519-194-00 | LAMP, NEON | |
| NL2512 | 1-519-194-00 | LAMP, NEON | |
| NL2513 | 1-519-194-00 | LAMP, NEON | |
| NL2514 | 1-519-194-00 | LAMP, NEON | |
| | | SWITCH | |
| S2501 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2502 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2503 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2504 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2505 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2506 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2507 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2508 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2509 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2510 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2511 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2512 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2513 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| S2514 | 1-553-329-00 | SWITCH, PUSHBUTTON | E-70 |
| ********** | | | |
| | ⏚:A-1330-257-A | C BOARD, COMPLETE | E-65 |
| | 1-526-086-XX | SOCKET, PICTURE TUBE | E-66 |
| | ⏚:1-551-655-00 | CONNECTOR, 5P | |
| | ⏚:1-551-682-00 | CONNECTOR, MINIATURE; 3P | |
| | ⏚:1-588-959-00 | C BOARD | |
| | | PLUG | |
| C1 | ⏚:1-508-786-00 | 2P PLUG | |

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ⏚ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | **CAPACITOR** | |
| C701 | 1-123-356-00 | ELECT 10MF 20% 50V | |
| C702 | 1-129-737-00 | POLYPROPYLENE 0.047MF 20% 630V | |
| C703 | 1-102-249-00 | CERAMIC 680PF 20% 2KV | |
| C704 | 1-102-971-00 | CERAMIC 82PF 5% 50V | |
| | | **COIL** | |
| L701 | 1-407-704-11 | MICRO INDUCTOR LF-8 82UH | |
| L702 | 1-407-704-11 | MICRO INDUCTOR LF-8 82UH | |
| L703 | 1-407-704-11 | MICRO INDUCTOR LF-8 82UH | |
| L704 | 1-407-708-11 | MICRO INDUCTOR LF-8 180UH | |
| L705 | 1-421-401-00 | COIL, FERRITE CHOKE | |
| | | **TRANSISTOR** | |
| Q701 | 8-729-322-78 | TRANSISTOR 2SC2278 | |
| Q702 | 8-729-322-78 | TRANSISTOR 2SC2278 | |
| Q703 | 8-729-322-78 | TRANSISTOR 2SC2278 | |
| | | **RESISTOR** | |
| R701 | 1-246-458-00 | CARBON 240 1/4 W 5% | |
| R702 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R703 | 1-206-692-00 | METAL 15K 2 W 5% | nonflammable |
| R704 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R705 | 1-246-458-00 | CARBON 240 1/4 W 5% | |
| R706 | 1-206-692-00 | METAL 15K 2 W 5% | nonflammable |
| R707 | 1-246-462-00 | CARBON 360 1/4 W 5% | |
| R708 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R709 | 1-206-692-00 | METAL 15K 2 W 5% | nonflammable |
| R710 | 1-202-585-00 | SOLID 3.3K 1/2 W 10% | |
| R713 | 1-202-585-00 | SOLID 3.3K 1/2 W 10% | |
| R714 | 1-202-609-00 | SOLID 33K 1/2 W 10% | |
| R715 | 1-202-613-00 | SOLID 47K 1/2 W 10% | |
| R716 | 1-202-585-00 | SOLID 3.30K 1/2 W 10% | |
| R717 | 1-202-645-00 | SOLID 1M 1/2 W 10% | |
| R718 | 1-202-549-00 | SOLID 100 1/2 W 10% | |
| R719 | 1-202-645-00 | SOLID 1M 1/2 W 10% | |
| R720 | 1-202-631-00 | SOLID 27K 1/2 W 10% | |
| R721 | 1-202-647-35 | SOLID 1.2M 1/2 W 10% | |
| R722 | 1-202-623-00 | SOLID 120K 1/2 W 10% | |
| R723 | 1-202-629-35 | SOLID 220K 1/2 W 10% | |
| R724 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| | | **VARIABLE RESISTOR** | |
| RV701 | 1-226-209-00 | RES, ADJ, CARBON 3.3K | |
| RV702 | 1-222-515-12 | RES, ADJ, CARBON 330 | |
| RV702 | 1-222-515-31 | RES, ADJ, CARBON 330 | |
| RV703 | 1-226-209-00 | RES, ADJ, CARBON 3.3K | |
| RV704 | 1-222-515-12 | RES, ADJ, CARBON 330 | |
| RV704 | 1-222-515-31 | RES, ADJ, CARBON 330 | |
| RV705 | 1-226-209-00 | RES, ADJ, CARBON 3.3K | |
| RV706 | 1-226-063-00 | RES, ADJ, CARBON 2.2M | |
| RV707 | 1-226-114-00 | RES, ADJ, METAL 2.2M | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | **SPARK GAP** | |
| SG701 | 1-519-063-XX | SPARK GAP | |
| SG702 | 1-519-063-XX | SPARK GAP | |
| SG703 | 1-519-063-XX | SPARK GAP | |
| SG704 | 1-519-063-XX | SPARK GAP | |
| SG705 | 1-519-063-XX | SPARK GAP | |
| SG706 | 1-519-063-XX | SPARK GAP | |
| ********** | | | |
| | ♦:1-600-567-00 | **MM BOARD** | E-63 |
| | | **CAPACITOR** | |
| C141 | 1-123-316-00 | ELECT 10MF 20% 16V | |
| | | **DIODE** | |
| D141 | 8-719-815-55 | DIODE 1S1555 | |
| D142 | 8-719-815-55 | DIODE 1S1555 | |
| | | **PLUG** | |
| MM1 | ♦:1-560-124-00 | PLUG, CONNECTOR; 4P | |
| | | **TRANSISTOR** | |
| Q141 | 8-729-663-47 | TRANSISTOR 2SC1364 | |
| | | **RESISTOR** | |
| R141 | 1-246-501-00 | CARBON 15K 1/4 W 5% | |
| R142 | 1-246-521-00 | CARBON 100K 1/4 W 5% | |
| R143 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R144 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| ********** | | | |
| | ♦:A-1306-086-A | **M2 BOARD, COMPLITE** | E-64 |
| | ♦:1-551-674-00 | CONNECTOR, 3P | |
| | ♦:1-551-798-00 | CONNECTOR, 7P | |
| | ♦:1-555-043-00 | CONNECTOR, 3P | |
| | ♦:1-555-198-00 | CONNECTOR, 4P | |
| | ♦:1-561-025-00 | CONNECTOR, MINIATURE; 4P | |
| | ♦:4-334-254-00 | CASE (MAIN), SHIELD | |
| | ♦:4-334-255-00 | LID, UPPER; M2 SHIELD CASE | |
| | ♦:4-334-256-00 | LID, REAR; M2 SHIELD CASE | |
| | | **CONNECTOR** | |
| A15 | ♦:1-551-784-00 | CONNECTOR, 8P | |
| | | **CAPACITOR** | |
| C001 | 1-123-254-00 | ELECT 10MF 250V | |
| C002 | 1-123-320-00 | ELECT 100MF 20% 16V | |
| C003 | 1-123-003-00 | ELECT 1.0MF 250V | |
| C004 | 1-123-351-00 | ELECT 0.47MF 20% 50V | |
| C005 | 1-108-618-11 | MYLAR 0.0022MF 10% 100V | |

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C006 | 1-123-351-00 | ELECT 0.47MF | 20% | 50V | |
| C007 | 1-108-798-11 | MYLAR 0.0033MF | 5% | 50V | |
| C008 | 1-102-822-00 | CERAMIC 390PF | 5% | 50V | |
| C009 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| C010 | 1-108-841-11 | MYLAR 0.022MF | 10% | 50V | |
| C011A | 1-123-352-00 | ELECT 1MF | 20% | 50V | |
| C011B | 1-123-352-00 | ELECT 1MF | 20% | 50V | |
| C031 | 1-123-355-00 | ELECT 4.7MF | 20% | 50V | |
| C032 | 1-102-123-00 | CERAMIC 0.0033MF | 10% | 50V | |
| C033 | 1-123-355-00 | ELECT 4.7MF | 20% | 50V | |
| C034 | 1-101-880-00 | CERAMIC 47PF | 5% | 50V | |
| C035 | 1-108-638-00 | MYLAR 0.1MF | 10% | 100V | |
| C036 | 1-102-971-00 | CERAMIC 82PF | 5% | 50V | |
| C037 | 1-101-006-00 | CERAMIC 0.047MF | | 50V | |
| C038 | 1-130-020-00 | FILM 0.0015MF | 5% | 50V | |
| C039 | 1-130-018-00 | FILM 0.001MF | 5% | 50V | |
| C040 | 1-130-018-00 | FILM 0.001MF | 5% | 50V | |
| C041 | 1-102-973-00 | CERAMIC 100PF | 5% | 50V | |
| C042 | 1-101-884-00 | CERAMIC 56PF | 5% | 50V | |
| C043 | 1-108-626-11 | MYLAR 0.01MF | 10% | 100V | |
| C044 | 1-108-642-11 | MYLAR 0.22MF | 10% | 100V | |
| C045 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| C046 | 1-108-626-11 | MYLAR 0.01MF | 10% | 100V | |
| C047 | 1-102-973-00 | CERAMIC 100PF | 5% | 50V | |
| C049 | 1-123-318-00 | ELECT 33MF | 20% | 16V | |
| C050 | 1-123-318-00 | ELECT 33MF | 20% | 16V | |
| C052 | 1-108-692-11 | MYLAR 0.01MF | 10% | 200V | |
| C053 | 1-101-118-00 | CERAMIC 0.01MF | 20% | 50V | |
| C054 | 1-108-692-11 | MYLAR 0.01MF | 10% | 200V | |
| C056 | 1-108-692-11 | MYLAR 0.01MF | 10% | 200V | |
| C059 | 1-102-129-00 | CERAMIC 0.01MF | 10% | 50V | |
| C060 | 1-102-980-00 | CERAMIC 270PF | 5% | 50V | |
| C062 | 1-102-446-00 | CERAMIC 0.0047MF | | 125V | |
| | | DIODE | | | |
| D001 | =>8-719-911-55 | DIODE U05G | | | |
| D002 | 8-719-900-93 | DIODE V09C | | | |
| D003 | 8-719-930-12 | DIODE EQB01-12Z | | | |
| D030 | 8-719-815-55 | DIODE 1S1555 | | | |
| D033 | 8-719-815-55 | DIODE 1S1555 | | | |
| D034 | 8-719-815-55 | DIODE 1S1555 | | | |
| D035 | 8-719-815-55 | DIODE 1S1555 | | | |
| D036 | 8-719-815-55 | DIODE 1S1555 | | | |
| D037 | 8-719-815-55 | DIODE 1S1555 | | | |
| D038 | 8-719-815-55 | DIODE 1S1555 | | | |
| D039 | 8-719-191-07 | DIODE RD9.1E | | | |
| | | IC | | | |
| IC001 | 8-757-630-00 | IC CX763 | | | |
| IC031 | 8-759-157-40 | IC UPC574J | | | |
| IC032 | 8-757-600-00 | IC CX760 | | | |
| IC033 | 8-758-040-00 | IC CX804 | | | |

| Ref.No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| IC034 | 8-757-611-00 | IC CX761A | | |
| | | COIL | | |
| L001 | 1-405-725-00 | COIL,OSC | | |
| L031 | 1-407-510-00 | MICRO INDUCTOR | 33MMH | |
| L032 | 1-409-193-00 | COIL 3.58MHZ TRAP | | |
| L033 | 1-407-169-XX | MICRO INDUCTOR | 100UH | |
| L034 | 1-407-687-11 | MICRO INDUCTOR LF-8 | 3.3UH | |
| L035 | 1-407-705-11 | MICRO INDUCTOR LF-8 | 100UH | |
| | | PLUG | | |
| M1 | ●:1-508-786-00 | PLUG, CONNECTOR; 2P | | |
| M3 | ●:1-560-123-00 | PLUG, CONNECTOR; 3P | | |
| M4 | ●:1-560-124-00 | PLUG, CONNECTOR; 4P | | |
| M8 | ●:1-560-126-00 | PLUG, CONNECTOR; 6P | | |
| M9 | ●:1-560-125-00 | PLUG, CONNECTOR; 5P | | |
| M12 | ●:1-560-127-00 | PLUG, CONNECTOR; 7P | | |
| M13 | ●:1-560-129-00 | PLUG, CONNECTOR; 9P | | |
| | | TRANSISTOR | | |
| Q001 | 8-729-213-11 | TRANSISTOR 2SC2230A | | |
| Q002 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q003 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q004 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q005 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q031 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q032 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q033 | =>8-729-612-77 | TRANSISTOR 2SA1027R | | |
| Q034 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q035 | =>8-729-612-77 | TRANSISTOR 2SA1027R | | |
| Q036 | 8-729-139-04 | TRANSISTOR 2N3904 | | |
| Q038 | =>8-729-612-77 | TRANSISTOR 2SA1027R | | |
| Q039 | =>8-729-612-77 | TRANSISTOR 2SA1027R | | |
| Q040 | =>8-729-612-37 | TRANSISTOR 2SA1027R | | |
| Q041 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q043 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q044 | 8-729-663-47 | TRANSISTOR 2SC1364 | | |
| Q045 | =>8-729-612-77 | TRANSISTOR 2SA1027R | | |
| | | RESISTOR | | |
| R000 | 1-246-475-00 | CARBON 1.2K | 1/4 W 5% | |
| R001 | ⚠1-213-131-00 | METAL 100 | 1 W 5% | nonflammable |
| R002 | 1-205-584-11 | WIREWOUND 5.6K | 7 W 10% | |
| R003 | 1-246-505-00 | CARBON 22K | 1/4 W 5% | |
| R004 | 1-246-513-00 | CARBON 47K | 1/4 W 5% | |
| R005 | 1-246-537-00 | CARBON 470K | 1/4 W 5% | |
| R006 | 1-246-513-00 | CARBON 47K | 1/4 W 5% | |
| R007 | 1-246-505-00 | CARBON 22K | 1/4 W 5% | |
| R008 | 1-202-665-15 | SOLID 6.80M | 1/2 W 5% | |
| R009 | 1-246-525-00 | CARBON 150K | 1/4 W 5% | |
| R010 | 1-246-529-00 | CARBON 220K | 1/4 W 5% | |
| R011 | 1-246-513-00 | CARBON 47K | 1/4 W 5% | |

NOTE:

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

# KV-1221R

SCC-266C-A

**M2** **S** **SS**

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| R012 | 1-246-513-00 | CARBON 47K 1/4 W 5% | |
| R013 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R014 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R015 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R016 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R019 | 1-246-505-00 | CARBON 10K 1/4 W 5% | |
| R020 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R021 | 1-246-513-00 | CARBON 47K 1/4 W 5% | |
| R022 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R023A | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R023B | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R024 | 1-246-530-00 | CARBON 240K 1/4 W 5% | |
| R025 | 1-246-487-00 | CARBON 3.9K 1/4 W 5% | |
| R027 | ⚠1-247-014-11 | CARBON 1.8K 1/4 W 5% | nonflammable |
| R028 | 1-246-485-00 | CARBON 3.3K 1/4 W 5% | |
| R029 | 1-202-645-00 | SOLID 1.00M 1/2 W 20% | |
| R030 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R031 | 1-246-504-00 | CARBON 20K 1/4 W 5% | |
| R032 | 1-246-487-00 | CARBON 3.9K 1/4 W 5% | |
| R033 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R034 | 1-246-479-00 | CARBON 1.8K 1/4 W 5% | |
| R035 | 1-246-459-00 | CARBON 270 1/4 W 5% | |
| R036 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R037 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R038 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R039 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| R040 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R041 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R042 | 1-246-485-00 | CARBON 3.3K 1/4 W 5% | |
| R043 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R044 | 1-246-521-00 | CARBON 100K 1/4 W 5% | |
| R045 | 1-246-533-00 | CARBON 330K 1/4 W 5% | |
| R046 | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R047 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R048 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R049 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R050 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R051 | 1-206-694-00 | METAL 18K 2 W 5% | nonflammable |
| R053 | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R055 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R056 | 1-246-533-00 | CARBON 330K 1/4 W 5% | |
| R057 | 1-246-535-00 | CARBON 390K 1/4 W 5% | |
| R058 | 1-246-507-00 | CARBON 27K 1/4 W 5% | |
| R059 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R060 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R061 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R062 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R063 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R064 | 1-246-521-00 | CARBON 100K 1/4 W 5% | |
| R065 | 1-246-521-00 | CARBON 100K 1/4 W 5% | |
| R066 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R067 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| R068 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R069 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| R070 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R071 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R072 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R073 | 1-244-873-00 | CARBON 1.00K 1/2 W 5% | |
| R074 | 1-244-929-00 | CARBON 220K 1/2 W 5% | |
| R075 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R076 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R077 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R078 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R079 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R080 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R081 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R082 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R083 | 1-246-519-00 | CARBON 82K 1/4 W 5% | |
| R084 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R085 | 1-206-700-00 | METAL 33K 2 W 5% | nonflammable |
| R086 | 1-244-918-00 | CARBON 75K 1/2 W 5% | |
| R087 | 1-246-529-00 | CARBON 220K 1/4 W 5% | |
| R088 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R089 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R090 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R092 | 1-246-499-00 | CARBON 12K 1/4 W 5% | |
| R094 | 1-246-507-00 | CARBON 27K 1/4 W 5% | |
| R095 | 1-246-519-00 | CARBON 82K 1/4 W 5% | |
| R096 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R097 | 1-246-513-00 | CARBON 47K 1/4 W 5% | |
| R098 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R099 | 1-202-667-00 | SOLID 8.2M 1/2 W 20% | |

RELAY

| | | |
|---|---|---|
| RL001 | ⚠1-515-338-00 | RELAY |

VARIABLE RESISTOR

| | | |
|---|---|---|
| RV001 | 1-224-551-00 | RES, ADJ, CARBON 220K |

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♦:1-602-649-00 SS BOARD E-72

DIODE

| | | |
|---|---|---|
| D171 | 8-719-815-55 | 1S1555 |
| D172 | 8-719-815-55 | 1S1555 |

RESISTOR

| | | |
|---|---|---|
| R171 | 1-246-485-00 | CARBON 3.3K 1/4W 5% |
| R172 | 1-246-492-00 | CARBON 6.2K 1/4W 5% |

VARIABLE RESISTOR

| | | |
|---|---|---|
| RV171 | 1-222-518-12 | RES, ADJ, CARBON 4.7K |

**********

♦:1-588-342-00 S BOARD E-61

CAPACITOR

| | | | | |
|---|---|---|---|---|
| C101 | 1-123-317-00 | ELECT 22MF | 20% | 16V |
| C102 | 1-121-398-00 | ELECT SINGLE 10MF | | 25V |
| C103 | 1-121-398-00 | ELECT SINGLE 10MF | | 25V |
| C104 | 1-121-403-00 | ELECT SINGLE 33MF | | 16V |
| C105 | 1-123-318-00 | ELECT 33MF | 20% | 16V |
| C106 | 1-108-638-00 | MYLAR 0.1MF | 10% | 100V |
| C108 | 1-108-634-11 | MYLAR 0.047MF | 10% | 100V |
| C109 | 1-108-636-11 | MYLAR 0.068MF | 10% | 100V |

TRANSISTOR

| | | |
|---|---|---|
| Q101 | 8-729-663-47 | TRANSISTOR 2SC1364 |

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | RESISTOR | |
| R102 | 1-246-465-00 | CARBON 470 1/4 W 5% | |
| R103 | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R104 | 1-246-533-00 | CARBON 330K 1/4 W 5% | |
| R105 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| | | PLUG | |
| S1 | ●:1-560-127-00 | PLUG, CONNECTOR; 7P | |
| ********** | | | |
| | ●:A-1295-411-A | A BOARD, COMPLETE | E-102 |
| | ●:1-508-915-11 | PLUG, 1P | |
| | ●:1-509-832-00 | CONNECTOR, 1P | |
| | ●:1-509-887-00 | CONNECTOR, 1P | |
| | 1-517-072-00 | LAMP HOLDER | |
| | ●:1-526-575-00 | SOCKET, PLUG | |
| | 1-533-146-00 | HOLDER, FUSE | |
| | ●:4-334-250-00 | CASE, SHIELD (MAIN) | |
| | ●:4-334-251-00 | LID, UPPER, SHIELD CASE | |
| | ●:4-334-252-00 | LID, REAR, SHIELD CASE | |
| | ●:4-335-320-00 | RING, SHORT; FBT | |
| | ●:4-340-905-00 | HEAT SINK, V OUT | |
| | | PLUG | |
| A1 | ●:1-506-349-21 | 3P PLUG | |
| A2 | ●:1-508-786-00 | 2P PLUG | |
| A3 | ●:1-508-786-00 | 2P PLUG | |
| A5 | ●:1-506-371-00 | 2P PLUG | |
| A6 | ●:1-508-765-00 | 3P PLUG | |
| A7 | ●:1-508-766-00 | 4P PLUG | |
| A10 | ●:1-508-765-00 | 3P PLUG | |
| A14 | ●:1-560-125-00 | PLUG, CONNECTOR; 5P | |
| A15 | ●:1-560-128-00 | PLUG, CONNECTOR | |
| A23 | ●:1-560-123-00 | PLUG, CONNECTOR; 3P | |
| | | CAPACITOR | |
| C201 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C202 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C205 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C206 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C207 | 1-161-328-51 | CERAMIC 4700PF 30% 50V | |
| C208 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C209 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C211 | 1-108-638-00 | MYLAR 0.1MF 10% 100V | |
| C212 | 1-123-353-00 | ELECT 2.2MF 20% 50V | |
| C213 | 1-108-635-11 | MYLAR 0.056MF 10% 100V | |
| C215 | 1-102-503-00 | CERAMIC 3PF 0.25PF 50V | |
| C216 | 1-102-503-00 | CERAMIC 3PF 0.25PF 50V | |
| C217 | 1-102-963-00 | CERAMIC 33PF 5% 50V | |
| C218 | 1-161-82 -00 | CERAMIC 18PF 5% 50V | |
| C219 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| C220 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C221 | 1-123-316-00 | ELECT 10MF 20% 16V | |
| C222 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C225 | 1-101-006-00 | CERAMIC 0.047MF 50V | |
| C226 | 1-161-294-00 | CERAMIC 12PF 5% 50V | |
| C228 | 1-123-352-00 | ELECT 1MF 20% 50V | |
| C229 | 1-101-118-00 | CERAMIC 0.01MF 20% 50V | |
| C230 | 1-102-114-00 | CERAMIC 470PF 10% 50V | |
| C231 | 1-108-628-11 | MYLAR 0.015MF 10% 100V | |
| C232 | 1-123-351-00 | ELECT 0.47MF 20% 50V | |
| C233 | 1-123-321-00 | ELECT 220MF 20% 16V | |
| C234 | 1-123-319-00 | ELECT 47MF 20% 16V | |
| C235 | 1-123-328-00 | ELECT 4.7MF 20% 25V | |
| C236 | 1-102-820-00 | CERAMIC 330PF 5% 50V | |
| C237 | 1-102-244-00 | CERAMIC 220PF 10% 500V | |
| C238 | 1-123-026-00 | ELECT 2.2MF 160V | |
| C239 | 1-123-352-00 | ELECT 1MF 20% 50V | |
| C240 | 1-102-496-00 | CERAMIC 82PF 5% 50V | |
| C241 | 1-102-518-00 | CERAMIC 33PF 5% 50V | |
| C242 | 1-102-494-00 | CERAMIC 68PF 5% 50V | |
| C243 | 1-123-381-00 | ELECT 2.2MF 20% 100V | |
| C245 | 1-102-074-00 | CERAMIC 0.001MF 10% 50V | |
| C247 | 1-108-618-11 | MYLAR 0.0022MF 10% 100V | |
| C248 | 1-102-038-00 | CERAMIC 0.001MF 500V | |
| C302 | 1-161-271-00 | CERAMIC 100PF 5% 50V | |
| C303 | 1-161-272-00 | CERAMIC 120PF 5% 50V | |
| C304 | 1-121-259-11 | ELECT 10MF NONPOLARIZED 16V | |
| C308 | 1-101-004-00 | CERAMIC 0.01MF 50V | |
| C309 | 1-102-820-00 | CERAMIC 330PF 5% 50V | |
| C310 | 1-123-351-00 | ELECT 0.47MF 20% 50V | |
| C311 | 1-108-619-00 | MYLAR 0.0027MF 10% 100V | |
| C312 | 1-123-586-00 | ELECT 0.1MF 20% 50V | |
| C313 | 1-108-634-11 | MYLAR 0.047MF 10% 100V | |
| C314 | 1-123-316-00 | ELECT 10MF 20% 16V | |
| C315 | 1-123-354-00 | ELECT 3.3MF 20% 50V | |
| C316 | 1-102-963-00 | CERAMIC 33PF 5% 50V | |
| C317 | 1-102-822-00 | CERAMIC 390PF 5% 50V | |
| C318 | 1-123-447-00 | ELECT 0.22MF 20% 50V | |
| C319 | 1-123-328-00 | ELECT 4.7MF 20% 25V | |
| C320 | 1-123-447-00 | ELECT 0.22MF 20% 50V | |
| C321 | 1-101-888-00 | CERAMIC 68PF 5% 50V | |
| C323 | 1-102-947-00 | CERAMIC 10PF 5% 50V | |
| C324 | 1-102-959-00 | CERAMIC 22PF 5% 50V | |
| C326 | 1-123-321-00 | ELECT 220MF 20% 16V | |
| C327 | 1-161-271-00 | CERAMIC 100PF 5% 50V | |
| C328 | 1-161-316-00 | CERAMIC 270PF 10% 50V | |
| C329 | 1-123-316-00 | ELECT 10MF 20% 16V | |
| C330 | 1-102-858-00 | CERAMIC 10PF 0.5PF 50V | |
| C331 | 1-102-858-00 | CERAMIC 10PF 0.5PF 50V | |
| C501 | 1-123-352-00 | ELECT 1MF 20% 50V | |
| C502 | 1-161-003-00 | CERAMIC 0.0015MF 10% 25V | |
| C503 | 1-123-352-00 | ELECT 1MF 20% 50V | |
| C504 | 1-161-194-00 | CERAMIC 0.0022MF 10% 25V | |
| C505 | 1-123-354-00 | ELECT 3.3MF 10% 50V | |

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms.

COILS
• MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

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| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C506 | 1-108-625-00 | MYLAR 0.0082MF | 10% | 100V | |
| C507 | 1-161-025-00 | CERAMIC 0.1MF | 10% | 25V | |
| C508 | 1-130-203-00 | POLYPROPYLENE 0.01MF | 5% | 50V | |
| C509 | 1-108-622-11 | MYLAR 0.0047MF | 10% | 100V | |
| C510 | 1-161-017-00 | CERAMIC 0.022MF | 10% | 25V | |
| C511 | 1-123-353-00 | ELECT 2.2MF | 20% | 50V | |
| C512 | 1-123-351-00 | ELECT 0.47MF | 20% | 50V | |
| C514 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| C515 | 1-161-328-51 | CERAMIC 4700PF | 30% | 50V | |
| C516 | 1-102-820-00 | CERAMIC 330PF | 5% | 50V | |
| C517 | 1-102-030-00 | CERAMIC 330PF | 10% | 500V | |
| C518 | 1-108-623-00 | MYLAR 0.0056MF | 10% | 100V | |
| C519 | 1-123-024-51 | ELECT 33MF | | 160V | |
| C520 | 1-123-345-00 | ELECT 100MF | 20% | 35V | |
| C521 | 1-123-316-00 | ELECT 10MF | 20% | 16V | |
| C522 | 1-108-618-11 | MYLAR 0.0022MF | 10% | 100V | |
| C523 | 1-108-633-11 | MYLAR 0.039MF | 10% | 100V | |
| C524 | 1-131-361-00 | TANTALUM ELECT 2.2MF | 20% | 20V | |
| C525 | 1-123-320-00 | ELECT 100MF | 20% | 16V | |
| C526 | 1-131-197-00 | ELEC TANTALUM 3.3MF | 10% | 16V | |
| C527 | 1-108-626-11 | MYLAR 0.01MF | 10% | 100V | |
| C528 | 1-108-635-11 | MYLAR 0.056MF | 10% | 100V | |
| C529 | 1-123-344-00 | ELECT 47MF | 20% | 35V | |
| C530 | 1-102-228-00 | CERAMIC 470PF | 10% | 500V | |
| C531 | 1-123-585-00 | ELECT 470MF | 10% | 25V | |
| C532 | 1-123-584-00 | ELECT 22MF | 10% | 16V | |
| C533 | 1-123-329-00 | ELECT 10MF | 20% | 25V | |
| C534 | 1-123-003-00 | ELECT 1.0MF | | 250V | |
| C535 | 1-130-162-00 | POLYPROPYLENE 0.33MF | 5% | 200V | |
| C536 | 1-102-212-00 | CERAMIC 820PF | 10% | 500V | |
| C537 | 1-123-357-00 | ELECT 22MF | 20% | 50V | |
| C539 | 1-123-346-00 | ELECT 220MF | 20% | 35V | |
| C540 | 1-129-710-00 | PLASTIC 0.0047MF | 10% | 630V | |
| C541 | 1-101-038-51 | CERMIC 0.001MF | | 500V | |
| C542 | 1-123-335-00 | ELECT 330MF | 20% | 25V | |
| C544 | 1-121-999-00 | ELECT 10MF | | 160V | |
| C545 | ⚠1-130-345-00 | MEDIUM-VOLT 0.01MF | 3% | 1.2KV | |
| C546 | ⚠1-108-961-11 | POLYETHYLENE 0.15MF | 10% | 200V | |
| C548 | 1-102-223-00 | CERAMIC 4700PF | 20% | 1.6KV | |
| C549 | 1-121-246-00 | ELECT 4.7MF | | 160V | |
| C550 | 1-102-973-00 | CERAMIC 100PF | 5% | 50V | |
| C551 | 1-108-632-11 | MYLAR 0.033MF | 10% | 100V | |
| C554 | 1-123-351-00 | ELECT 0.47MF | 20% | 50V | |
| C555 | 1-123-341-00 | ELECT 10MF | 20% | 35V | |
| C559 | 1-102-038-00 | CERAMIC 0.001MF | | 500V | |
| C560 | 1-102-129-00 | CERAMIC 0.01MF | 10% | 50V | |
| C601 | ⚠1-108-745-00 | METAL 0.22MF | 20% | 125V | |
| C602 | ⚠1-161-748-00 | CERAMIC 0.0047MF | | 125V | |
| C605 | 1-125-221-00 | ELECT 470MF | | 200V | |
| C606 | 1-123-355-00 | ELECT 4.7MF | 20% | 50V | |
| C607 | 1-121-246-00 | ELECT 4.7MF | | 160V | |
| C608 | 1-101-810-00 | CERAMIC 100PF | 5% | 500V | |
| C609 | 1-121-999-00 | ELECT 10MF | | 160V | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | CERAMIC FILTER | |
| CF201 | 1-527-260-00 | CERAMIC FILTER | |
| CF202 | 1-409-332-00 | CERAMIC TRAP | |
| | | TRIMMER | |
| CV301 | 1-141-212-00 | CAP, TRIMMER | |
| | | DIODE | |
| D202 | 8-719-113-07 | DIODE RD13E | |
| D203 | 8-719-815-55 | DIODE 1S1555 | |
| D204 | 8-719-815-55 | DIODE 1S1555 | |
| D301 | =>8-719-200-02 | DIODE 10E2 | |
| D501 | 8-719-815-55 | DIODE 1S1555 | |
| D502 | 8-719-156-25 | DIODE RD5.6E-BZ7S | |
| D504 | 8-719-815-55 | DIODE 1S1555 | |
| D505 | =>8-719-911-55 | DIODE U05G | |
| D506 | =>8-719-200-02 | DIODE 10E2 | |
| D507 | =>8-719-911-55 | DIODE U05G | |
| D508 | =>8-719-911-55 | DIODE U05G | |
| D509 | =>8-719-305-15 | DIODE GH3F | |
| D510 | =>8-719-305-15 | DIODE GH3F | |
| D511 | ⚠ 8-719-901-94 | DIODE V19CS | |
| D512 | =>8-719-305-15 | DIODE GH3F | |
| D513 | =>8-719-305-15 | DIODE GH3F | |
| D514 | =>8-719-305-15 | DIODE GH3F | |
| D515 | =>8-719-931-24 | DIODE EQB01-24 | |
| D601 | =>8-719-911-55 | DIODE U05G | |
| | | DELAY LINE | |
| DL301 | 1-415-200-00 | DELAY LINE | |
| | | VARISTOR | |
| DVR601 | ⚠.1-800-641-00 | VARISTOR | |
| | | PLUG | |
| DY1 | ●:1-506-349-21 | 3P PLUG | |
| DY2 | ●:1-506-349-21 | 3P PLUG | |
| | | FUSE | |
| F601 | ⚠.1-532-221-11 | FUSE 5A | |
| F602 | ⚠.1-532-570-00 | FUSE, 1.25A | |
| | | CONNECTOR | |
| H1 | ●:1-555-187-00 | CONNECTOR, MINIATURE; 2P | |
| HC21 | ●:1-555-187-00 | CONNECTOR, MINIATURE; 2P | |
| | | IC | |
| IC201 | 8-759-600-05 | IC CX555A | |
| IC202 | 8-759-608-43 | IC CX843 | |
| IC301 | =>8-759-105-56 | IC CX556 | |
| IC501 | 8-759-105-57 | IC CX557 | |

NOTE:

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- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

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| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| IC502 | 8-759-113-58 | IC UPC1358H | |
| IC601 | ⚠1-231-462-00 | MODULE, POWER | |
| | | COIL | |
| L201 | 1-407-694-11 | MICRO INDUCTOR LF-8 12UH | |
| L202 | 1-407-687-11 | MICRO INDUCTOR LF-8 3.3UH | |
| L203 | 1-407-692-11 | MICRO INDUCTOR LF-8 8.2UH | |
| L302 | 1-407-699-11 | MICRO INDUCTOR LF-8 33UH | |
| L303 | 1-408-163-00 | COIL, CORE 5.6MMH | |
| L304 | 1-407-702-11 | MICRO INDUCTOR LF-8 56UH | |
| L305 | 1-407-698-11 | MICRO INDUCTOR LF-8 27UH | |
| L501 | 1-407-685-00 | MICRO INDUCTOR LF-8 2.2UH | |
| L502 | ⚠1-459-295-00 | COIL, FERRITE (HLC) | |
| L503 | ⚠1-459-292-00 | COIL, FERRITE | |
| L504 | 1-407-501-31 | MICRO INDUCTOR LF-5 5.6MMH | |
| L505 | 1-407-696-00 | MICRO INDUCTOR LF-8 18UH | |
| L506 | 1-407-699-11 | MICRO INDUCTOR LF-8 33UH | |
| L508 | 1-407-203-XX | MICRO INDUCTOR LF-5 5.6MMH | |
| L601 | ⚠1-421-403-00 | COIL, CHOKE | |
| | | NEON LAMP | |
| NL501 | 1-519-108-XX | LAMP,NEON | |
| NL601 | 1-519-108-XX | LAMP,NEON | |
| | | TRANSISTOR | |
| Q201 | 8-765-300-00 | TRANSISTOR 2SC2009 | |
| Q202 | 8-729-663-47 | TRANSISTOR 2SC1364 | |
| Q203 | 8-763-113-00 | TRANSISTOR 2SC1761 | |
| Q204 | 8-729-309-06 | TRANSISTOR 2SC1890A | |
| Q205 | =>8-765-170-01 | TRANSISTOR 2SC1962 | |
| Q206 | =>8-762-020-00 | TRANSISTOR 2SA835 | |
| Q301 | 8-729-663-47 | TRANSISTOR 2SC1364 | |
| Q501 | =>8-729-663-47 | TRANSISTOR 2SC1364 | |
| Q502 | 8-729-213-11 | TRANSISTOR 2SC2230A | |
| Q503 | =>8-729-663-47 | TRANSISTOR 2SC1364 | |
| Q601 | 8-729-309-36 | TRANSISTOR 2SA893A | |
| Q602 | 8-729-383-03 | TRANSISTOR MN8303 | |
| | | RESISTOR | |
| R202 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R203 | 1-246-487-00 | CARBON 3.9K 1/4 W 5% | |
| R204 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R205 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R208 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| R209 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R210 | 1-246-463-00 | CARBON 390 1/4 W 5% | |
| R211 | 1-246-469-00 | CARBON 680 1/4 W 5% | |
| R212 | 1-246-875-00 | CARBON 33 1/2 W 5% | nonflammable |
| R214 | 1-246-457-00 | CARBON 220 1/4 W 5% | |
| R215 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R216 | 1-246-483-00 | CARBON 2.7K 1/4 W 5% | |
| R217 | 1-246-519-00 | CARBON 82K 1/4 W 5% | |
| R218 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| R219 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R220 | 1-246-517-00 | CARBON 68K 1/4 W 5% | |
| R221 | 1-246-469-00 | CARBON 680 1/4 W 5% | |
| R222 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R223 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R226 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| R227 | 1-246-507-00 | CARBON 27K 1/4 W 5% | |
| R228 | 1-246-483-00 | CARBON 2.7K 1/4 W 5% | |
| R229 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R230 | 1-246-520-00 | CARBON 91K 1/4 W 5% | |
| R231 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R232 | 1-246-987-11 | CARBON 47 1/8 W 5% | nonflammable |
| R233 | 1-246-449-00 | CARBON 100 1/4 W 5% | |
| R234 | 1-246-457-00 | CARBON 220 1/4 W 5% | |
| R235 | 1-246-451-00 | CARBON 120 1/4 W 5% | |
| R236 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R237 | 1-246-987-11 | CARBON 47 1/8 W 5% | nonflammable |
| R239 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R240 | 1-246-485-00 | CARBON 3.3K 1/4 W 5% | |
| R241 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R243 | 1-213-124-00 | METAL 27 1 W 5% | |
| R244 | 1-212-368-00 | METAL 4.7 1 W 5% | nonflammable |
| R245 | 1-246-521-00 | CARBON 100K 1/4 W 5% | |
| R246 | 1-246-875-00 | CARBON 33 1/2 W 5% | nonflammable |
| R247 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R248 | 1-246-419-00 | CARBON 5.6 1/4 W 5% | |
| R249 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R301 | 1-246-477-00 | CARBON 1.5K 1/4 W 5% | |
| R302 | 1-246-479-00 | CARBON 1.8K 1/4 W 5% | |
| R306 | 1-246-483-00 | CARBON 2.7K 1/4 W 5% | |
| R307 | 1-246-443-00 | CARBON 56 1/4 W 5% | |
| R309 | 1-246-491-00 | CARBON 5.6K 1/4 W 5% | |
| R310 | 1-246-469-00 | CARBON 680 1/4 W 5% | |
| R311 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R312 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R313 | 1-246-498-00 | CARBON 11K 1/4 W 5% | |
| R314 | 1-246-506-00 | CARBON 24K 1/4 W 5% | |
| R315 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R316 | 1-246-477-00 | CARBON 1.5K 1/4 W 5% | |
| R317 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R318 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R320 | 1-246-469-00 | CARBON 680 1/4 W 5% | |
| R321 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R323 | 1-246-495-00 | CARBON 8.2K 1/4 W 5% | |
| R324 | 1-246-496-00 | CARBON 9.1K 1/4 W 5% | |
| R326 | 1-246-457-00 | CARBON 220 1/4 W 5% | |
| R327 | 1-246-479-00 | CARBON 1.8K 1/4 W 5% | |
| R328 | 1-246-477-00 | CARBON 1.5K 1/4 W 5% | |
| R331 | 1-246-487-00 | CARBON 3.9K 1/4 W 5% | |
| R332 | 1-246-449-00 | CARBON 100 1/4 W 5% | |
| R333 | 1-246-467-00 | CARBON 560 1/4 W 5% | |
| R501 | 1-246-453-00 | CARBON 150 1/4 W 5% | |
| R502 | 1-246-537-00 | CARBON 470K 1/4 W 5% | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| R503 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R504 | 1-246-513-00 | CARBON 47K 1/4 W 5% | |
| R505 | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R506 | 1-246-511-00 | CARBON 39K 1/4 W 5% | |
| R507 | 1-246-513-00 | CARBON 47K 1/4 W 5% | |
| R508 | 1-246-509-00 | CARBON 33K 1/4 W 5% | |
| R509 | 1-246-523-00 | CARBON 120K 1/4 W 5% | |
| R510 | 1-246-487-00 | CARBON 3.9K 1/4 W 5% | |
| R511 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R512 | 1-246-481-00 | CARBON 2.2K 1/4 W 5% | |
| R514 | 1-246-512-00 | CARBON 43K 1/4 W 5% | |
| R515 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R516 | 1-246-479-00 | CARBON 1.8K 1/4 W 5% | |
| R517 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R518 | 1-246-461-00 | CARBON 330 1/4 W 5% | |
| R519 | 1-206-676-00 | METAL 3.3K 2 W 5% | nonflammable |
| R520 | 1-206-745-00 | METAL 6.8K 3 W 5% | nonflammable |
| R521 | 1-246-467-00 | CARBON 560 1/4 W 5% | |
| R522 | 1-246-501-00 | CARBON 15K 1/4 W 5% | |
| R523 | 1-246-455-00 | CARBON 180 1/4 W 5% | |
| R524 | 1-246-493-00 | CARBON 6.8K 1/4 W 5% | |
| R525 | 1-246-495-00 | CARBON 8.2K 1/4 W 5% | |
| R526 | 1-246-505-00 | CARBON 22K 1/4 W 5% | |
| R527 | 1-246-457-00 | CARBON 220 1/4 W 5% | |
| R528 | 1-214-145-00 | METAL 3.6K 1/4 W 1% | |
| R529 | 1-214-152-00 | METAL 6.8K 1/4 W 1% | |
| R530 | 1-246-501-00 | CARBON 15K 1/4 W 5% | |
| R531 | 1-246-517-00 | CARBON 68K 1/4 W 5% | |
| R532 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R533 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R534 | 1-213-127-00 | METAL 47 1 W 5% | nonflammable |
| R535 | 1-246-463-00 | CARBON 390 1/4 W 5% | |
| R537 | 1-212-362-00 | METAL 1.5 1 W 5% | nonflammable |
| R538 | 1-246-475-00 | CARBON 1.2K 1/4 W 5% | |
| R539 | 1-246-475-00 | CARBON 1.2K 1/4 W 5% | |
| R540 | 1-246-506-00 | CARBON 24K 1/4 W 5% | |
| R541 | 1-246-489-00 | CARBON 4.7K 1/4 W 5% | |
| R542 | 1-247-439-00 | CARBON 8.2K 1/8 W 5% | |
| R543 | 1-213-129-00 | METAL 68 1 W 5% | nonflammable |
| R544 | 1-246-473-00 | CARBON 1K 1/4 W 5% | |
| R545 | 1-247-032-00 | CARBON 68 1/8 W 5% | nonflammable |
| R546 | 1-247-009-00 | CARBON 470 1/4 W 5% | nonflammable |
| R547 | 1-246-491-00 | CARBON 5.6K 1/4 W 5% | |
| R548 | 1-246-984-11 | CARBON 22 1/8 W 5% | nonflammable |
| R549 | 1-246-483-00 | CARBON 2.7K 1/4 W 5% | |
| R550 | 1-213-133-00 | METAL 150 1 W 5% | nonflammable |
| R551 | 1-246-996-00 | CARBON 2.2K 1/8 W 5% | nonflammable |
| R552 | 1-246-513-00 | CARBON 47K 1/4 W 5% | |
| R553 | 1-246-491-00 | CARBON 5.6K 1/4 W 5% | |
| R554 | ⚠1-246-979-00 | CARBON 1.2 1/8 W 5% | nonflammable |
| R555 | ⚠1-213-143-00 | METAL 1K 1 W 5% | nonflammable |
| R556 | 1-214-909-00 | METAL 68K 1/2 W 1% | |
| R557 | 1-246-491-00 | CARBON 5.6K 1/4 W 5% | |
| R558 | 1-244-898-00 | CARBON 11K 1/2 W 5% | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| R559 | 1-246-475-00 | CARBON 1.2K 1/4 W 5% | |
| R563 ⧓⚠ | | CARBON 1/4 W | |
| R565 | 1-246-541-00 | CARBON 680K 1/4 W 5% | |
| R585 | 1-246-987-11 | CARBON 47 1/8 W 5% | nonflammable |
| R603 | 1-213-163-00 | METAL 47K 1 W 5% | nonflammable |
| R605B | 1-246-989-11 | CARBON 82 1/8 W 5% | nonflammable |
| R606 | 1-213-157-00 | METAL 15K 1 W 5% | nonflammable |
| R607 | 1-244-896-00 | CARBON 9.1K 1/2 W 5% | |
| R608 | ⚠1-247-037-00 | CARBON 390 1/8 W 5% | nonflammable |
| R609 | 1-244-913-00 | CARBON 47K 1/2 W 5% | |
| R610 | 1-246-525-00 | CARBON 150K 1/4 W 5% | |
| | | VARIABLE RESISTOR | |
| RV201 | 1-226-135-00 | RES, ADJ, CARBON 4.7K | |
| RV202 | 1-226-135-00 | RES, ADJ, CARBON 4.7K | |
| RV301B | 1-222-787-12 | RES, ADJ, CARBON 10K | |
| RV302 | 1-226-078-00 | RES, VAR, CARBON 10K | |
| RV303 | 1-226-408-00 | RES, VAR, CARBON 500 | |
| RV304 | 1-222-518-12 | RES, ADJ, CARBON 4.7K | |
| RV305 | 1-226-075-00 | RES, VAR, CARBON 10K | |
| RV306 | 1-226-075-00 | RES, VAR, CARBON 10K | |
| RV307 | 1-224-552-00 | RES, ADJ, CARBON 470K | |
| RV308 | 1-222-516-13 | RES, ADJ, CARBON 470 | |
| RV501 | 1-226-819-00 | RES, ADJ, METAL 1K | |
| RV502 | 1-226-217-00 | RES, ADJ, CARBON 22K | |
| RV503B | 1-226-077-00 | RES, VAR, CARBON 5K | |
| RV504 | 1-222-518-12 | RES, ADJ, CARBON 4.7K | |
| | | SWITCH | |
| S301 | 1-553-176-00 | SWITCH, ROTARY | E-103 |
| | | FILTER | |
| SF201 | 1-404-227-31 | FILTER, SURFACE WAVE; SAWF | |
| | | SPARK GAP | |
| SG501 | 1-519-063-XX | SPARK GAP | |
| | | TRANSFORMER | |
| T201 | 1-404-265-00 | VIFT | |
| T202 | 1-404-229-00 | VIFT 44MHZ | |
| T203 | 1-404-181-00 | COIL, VIF | |
| T204 | 1-404-182-00 | COIL, VIF | |
| T205 | 1-404-181-00 | COIL, VIF | |
| T206 | 1-403-360-00 | COIL, SIF | |
| T207 | 1-403-871-00 | SIFT-2 COIL | |
| T209 | ⚠1-427-394-00 | TRANSFORMER, OUTPUT | |
| T301 | 1-425-995-00 | TRANSFORMER, INPUT | |
| T302 | 1-409-193-00 | COIL 3.58MHZ TRAP | |
| T501 | 1-437-078-00 | TRANSFORMER, HORIZONTAL DRIVE | |
| T502 | ⚠1-421-351-00 | H.PCT | |
| T503 | ⚠1-439-250-00 | TRANSFORMER ASSY, FLYBACK | E-101 |

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS • MF : μF, PF : μμF

RESISTORS • All resistors are in ohms.

COILS • MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**



NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS • MF : μF, PF : μμF

RESISTORS • All resistors are in ohms.

COILS • MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| T601 | ⚠1-421-357-00 | TRANSFORMER, LINE FILTER | |
| | | THERMISTOR | |
| THP601 | ⚠1-800-686-00 | THERMISTOR | |
| | | CRYSTAL | |
| X301 | 1-527-396-00 | CRYSTAL, OSC | |
| ********** | | | |
| | ●:1-602-504-00 | M1 BOARD | E-5 |
| | ●:1-555-338-00 | CONNECTOR, 5P | |
| | ●:1-555-356-00 | CONNECTOR, 6P | |
| | | CAPACITOR | |
| C2201 | 1-123-353-00 | CAP, ELECT 2.2MF 20% 50V | |
| C2202 | 1-123-352-00 | CAP, ELECT 1MF 20% 50V | |
| | | DIODE | |
| D2201 | 8-719-106-34 | DIODE SR632D | |
| D2202 | 8-719-106-34 | DIODE SR632D | |
| D2203 | 8-719-106-34 | DIODE SR632D | |
| D2204 | 8-719-106-34 | DIODE SR632D | |
| D2205 | 8-719-106-34 | DIODE SR632D | |
| D2206 | 8-719-812-41 | DIODE TLR124 | |
| D2207 | 8-719-812-42 | DIODE TLY124 | |
| D2208 | 8-719-812-43 | DIODE TLG124 | |
| | | IC | |
| IC2201 | 8-759-619-03 | IC M51903L | |
| | | RESISTOR | |
| R2200 | 1-246-497-00 | CARBON 10K 1/4 W 5% | |
| R2201 | 1-246-471-00 | CARBON 820 1/4 W 5% | |
| R2202 | 1-246-471-00 | CARBON 820 1/4 W 5% | |
| R2203 | 1-246-471-00 | CARBON 820 1/4 W 5% | |
| R2204 | 1-246-471-00 | CARBON 820 1/4 W 5% | |
| R2205 | 1-246-471-00 | CARBON 820 1/4 W 5% | |
| R2206 | 1-246-449-00 | CARBON 100 1/4 W 5% | |
| R2207 | 1-246-485-00 | CARBON 3.3K 1/4 W 5% | |
| | | SWITCH | |
| S2201 | 1-552-656-00 | SWITCH, SLIDE | |
| S2202 | 1-552-656-00 | SWITCH, SLIDE | |
| S2203 | 1-552-774-00 | SWITCH, PUSHBUTTON | |
| S2204 | 1-552-774-00 | SWITCH, PUSHBUTTON | |
| S2205 | 1-552-774-00 | SWITCH, PUSHBUTTON | |
| S2206 | 1-552-437-00 | SWITCH, LEVER | |

| Ref.No. | Part No. | Description | Remark |
|---|---|---|---|
| | | MISCELLANEOUS | |
| | ⚠1-226-733-21 | RESISTOR, HIGH-VOLTAGE | E-54 |
| | ⚠1-451-185-00 | DEFLECTION YOKE, DY | E-67 |
| | 1-452-032-00 | MAGNET, DISK | E-1 |
| | 1-452-094-00 | MAGNET, ROTATABLE DISK | E-8 |
| | 1-452-146-00 | MAGNET, BMC | E-52 |
| | ⚠1-463-264-00 | VHF/UHF TUNER (BT-852) | E-62 |
| | ●:1-509-990-00 | CONNECTOR, 2P | |
| | 1-526-606-00 | CAP, HIGH-VOLTAGE | E-55 |
| | 1-536-376-11 | L-TYPE TERMINAL STRIP | E-107 |
| | ⚠1-536-598-00 | TERMINAL BOARD, ANTENNA | E-58 |
| | ●:1-551-382-00 | CABEL, P-P | E-60 |
| | ⚠1-551-509-00 | CORD, POWER | E-7 |
| | ●:1-551-653-00 | FEEDER, SOLDERLESS TERMINAL | E-59 |
| | ●:1-555-020-00 | CONNECTOR, MINIATURE; 3P | |
| | ●:1-551-793-00 | CONNECTOR, 2P | |
| C901 | ⚠1-102-155-00 | CAP,CERAMIC 330PF 20% 2KV | |
| J901A,B | 1-507-372-00 | JACK, DOUBLE | E-3 |
| L901 | ⚠1-425-922-81 | COIL, DEGAUSSING | E-53 |
| L902 | ⚠1-425-922-81 | COIL, DEGAUSSING | E-53 |
| L904 | 1-408-349-00 | COIL, CHOKE | |
| L905 | 1-407-365-00 | COIL, CHOKE (HIGH FREQUENCY) | |
| Q902 | =>8-729-287-00 | TRANSISTOR 2SD870 | E-106 |
| R901 | ⚠1-205-612-00 | RES, CEMENT WIREWOUND 4.7 20W 10% | E-104 |
| R902 | ⚠1-205-613-00 | RES, CEMENT WIREWOUND 220 20W 10% | E-105 |
| S901 | ⚠1-553-262-00 | SWITCH, PUSHBUTTON | E-4 |
| SP901 | 1-502-882-00 | SPEAKER | E-2 |
| V901 | ⚠8-738-901-05 | PICTURE TUBE | E-68 |

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**



**ACCESSORIES AND PACKING MATERIALS**

| Part No. | Description | Remark |
|---|---|---|
| Y-2063-103-0 | ANTENNA, LOOP (AN-15) | E-56 |
| Y-2201-611-0 | ANTENNA, TELESCOPIC DIPOLE (AN-16) | E-6 |
| 1-504-034-32 | EARPHONE, MAGNETIC (ME-20B) | |
| 1-513-379-00 | CONNECTOR, ANTENNA (EAC-25) | E-57 |
| 3-701-352-00 | BAG, POLYETHYLENE | |
| 3-701-628-00 | BAG, POLYETHYLENE | |
| 4-316-037-00 | BAG, POLYETHYLENE | |
| 4-335-355-00 | LABEL, INSTRUCTION PRESET | |
| 4-344-022-00 | LABEL (B), INDICATOR | |
| 4-344-040-01 | CARTON | |
| 4-344-036-01 | CUSHION (LEFT UPPER) | |
| 4-344-037-01 | CUSHION (RIGHT UPPER) | |
| 4-344-038-01 | CUSHION (LEFT LOWER) | |
| 4-344-039-01 | CUSHION (RIGHT LOWER) | |
| 4-495-954-31 | MANUAL, INSTRUCTION | |

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

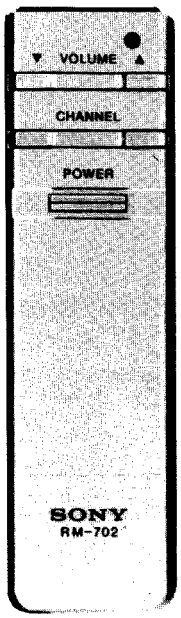
CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

# RM-702



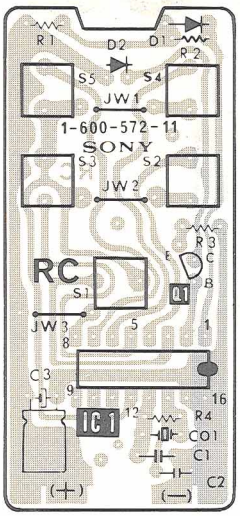

# REMOTE COMMANDER

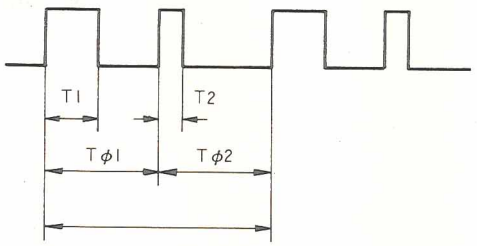
## SPECIFICATIONS

| | |
|---|---|
| **Control System:** | Infrared control |
| **Semiconductors:** | 1 transistor, 2 diodes & 1 IC |
| **Power Requirements:** | 3V dc, batteries size "AA" (IEC designation R6) 2 pcs. |
| **Dimensions:** | Approx. 36 (w) x 21.5 (h) x 133 (d) mm<br>$1\frac{3}{8}$ (w) x $\frac{7}{8}$ (h) x $5\frac{1}{4}$ (d) inches |
| **Net Weight:** | 80g (3 oz) including batteries |
| **Accessories supplied:** | Battery size "AA" (IEC designation R6) |

## 1. MOUNTING DIAGRAM

*— Conductor Side —*

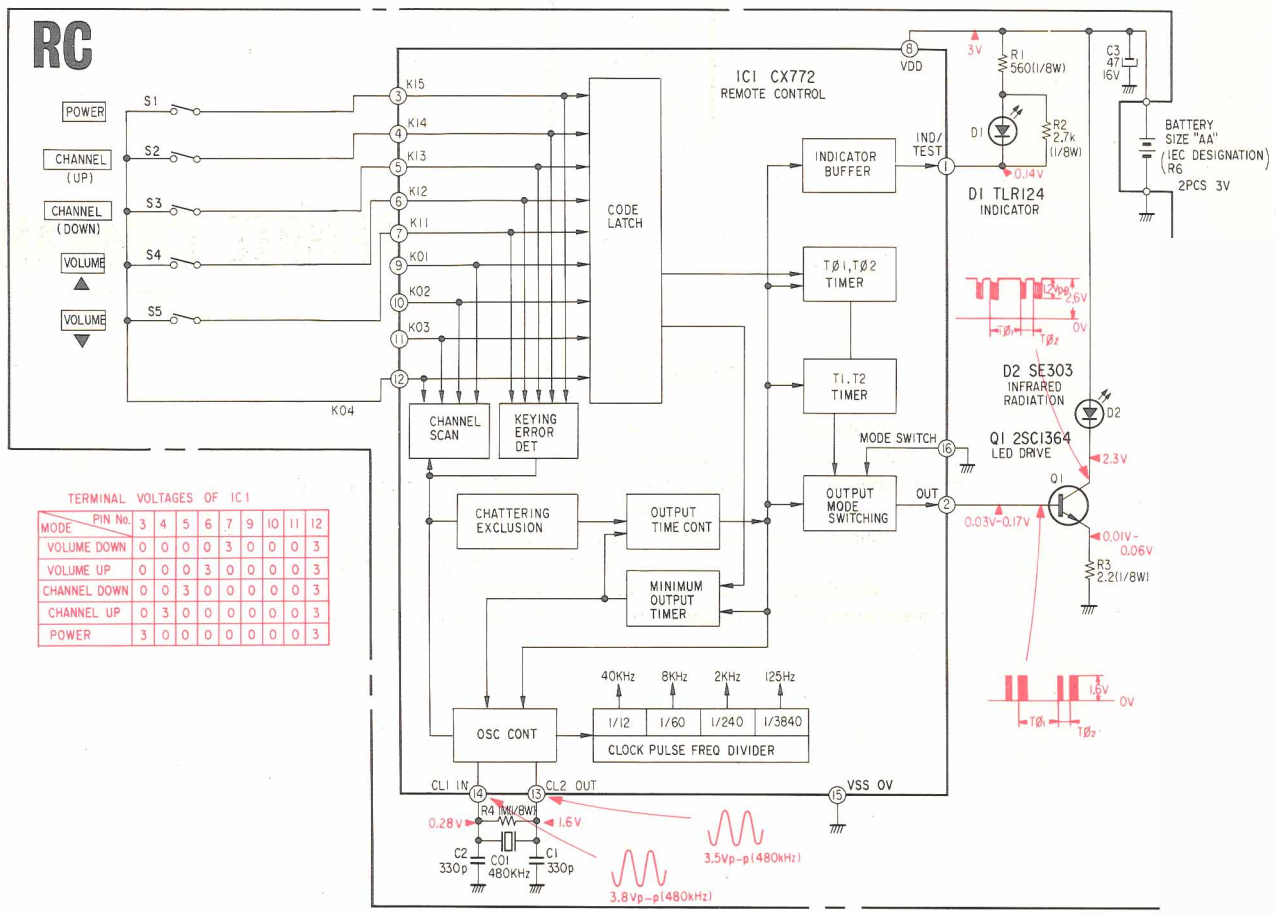



| Tϕ1 / Tϕ2 | 3ms | 5.5ms | 8.5ms | 13ms | 22ms |
|---|---|---|---|---|---|
| 13ms | SND/DN | SND/UP | CH/UP | CH/DN | Power |

- $T_1$=1.5ms
- $T_2$=0.75ms
- Carrier ($f_0$)=40kHz

## 2. SCHEMATIC DIAGRAM



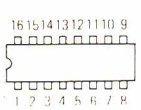

TERMINAL VOLTAGES OF IC1

| MODE \ PIN No. | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|
| VOLUME DOWN | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| VOLUME UP | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| CHANNEL DOWN | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| CHANNEL UP | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| POWER | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

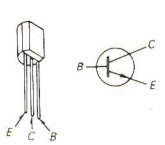
**Note:**

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF
- All resistors are in ohms, 1/8W. kΩ : 1000Ω, MΩ : 1000kΩ
- □ : panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.

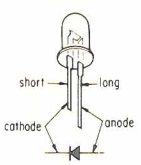
**CX772**




**2SC1364**




**SE303A**

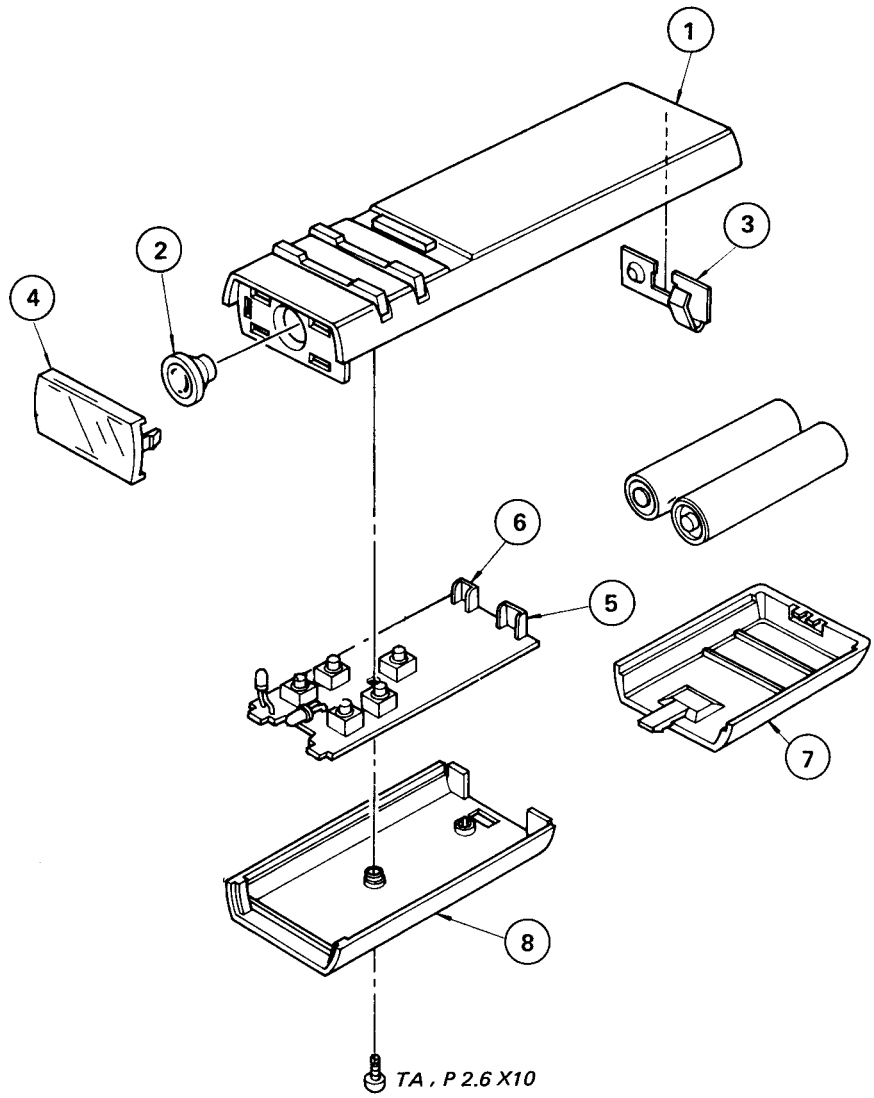



**TLR124**

A B C D

1 2 3 4 5

## 3. EXPLODED VIEW




| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|---|---|---|---|---|---|---|---|
| 1 | X-4338-001-6 | CASE (UPPER) ASSY | | 5 | 4-338-006-00 | TERMINAL (+), BATTERY | |
| 2 | 2-249-913-00 | MIRROR, REFLECTION | | 6 | 4-338-007-00 | TERMINAL (-), BATTERY | |
| 3 | 4-334-234-00 | TERMINAL (C), BATTERY | | 7 | 4-338-008-00 | COVER, BATTERY CASE | |
| 4 | 4-338-005-00 | PLATE, FROSTED | | 8 | 4-338-009-00 | CASE (LOWER) | |

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

# RC

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | 1-600-572-00 | RC BOARD | | | |
| | | CAPACITOR | | | |
| C1 | 1-102-832-00 | CAP, CERAMIC 330PF | 10% | 50V | |
| C2 | 1-102-832-00 | CAP, CERAMIC 330PF | 10% | 50V | |
| C3 | 1-123-319-00 | CAP, ELECT 47MF | 20% | 16V | |
| | | OSCILLATOR | | | |
| C01 | 1-527-476-00 | OSCILLATOR, CERAMIC | | | |
| | | DIODE | | | |
| D1 | 8-719-812-41 | DIODE TLR124 | | | |
| D2 | 8-719-103-03 | DIODE SE303A | | | |
| | | IC | | | |
| IC1 | 8-759-607-72 | IC CX772 | | | |
| | | TRANSISTOR | | | |
| Q1 | 8-729-663-47 | TRANSISTOR 2SC1364 | | | |
| | | RESISTOR | | | |
| R1 | 1-246-780-00 | RES, CARBON 560 | 1/8 W | 5% | |
| R2 | 1-246-780-00 | RES, CARBON 2.7K | 1/8 W | 5% | |
| R3 | 1-246-751-00 | RES, CARBON 2.2 | 1/8 W | 5% | |
| R4 | 1-246-053-00 | RES, CARBON 1M | 1/8 W | 5% | |
| | | SWITCH | | | |
| S1 | 1-552-868-21 | SWITCH, PUSHBUTTON | | | |
| S2 | 1-552-868-21 | SWITCH, PUSHBUTTON | | | |
| S3 | 1-552-868-21 | SWITCH, PUSHBUTTON | | | |
| S4 | 1-552-868-21 | SWITCH, PUSHBUTTON | | | |
| S5 | 1-552-868-21 | SWITCH, PUSHBUTTON | | | |

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
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CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

**Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

# STANDARD PARTS LIST

**** CAPACITOR ELECT ****

| uF | 6.3V | 10V | 16V | 25V | 35V | 50V | 100V | 160V | 250V | 350V |
|---|---|---|---|---|---|---|---|---|---|---|
| | Part No. | Part No. | Part No. | Part No. | Part No. | Part No. | Part No. | Part No. | Part No. | Part No. |
| 0.47 | | | | | | 1-121-726 | | | | |
| 1.0 | | | | | | 391 | 1-123-249 | 1-123-252 | 1-123-003 | 1-121-168 |
| 2.2 | | | | | | 450 | 250 | 026 | | 1-123-028 |
| 3.3 | | | | 1-121-392 | | 393 | 1-121-995 | | 004 | 006 |
| 4.7 | | | | 395 | | 396 | 1-123-255 | 1-121-246 | 1-121-759 | 007 |
| 10 | | | 1-121-651 | 398 | | 738 | 1-121-126 | 999 | 1-123-254 | 008 |
| 22 | | | 479 | 480 | 1-121-662 | 152 | 996 | 1-123-253 | | 022 |
| 33 | | | 403 | 404 | 652 | 405 | 997 | 919 | | |
| 47 | | 1-121-352 | 409 | 410 | 653 | 411 | 1-123-251 | | | |
| 100 | | 414 | 415 | 416 | 357 | 417 | 084 | | | |
| 220 | 1-121-419 | 420 | 421 | 422 | 261 | 423 | | | | |
| 330 | 751 | 805 | 521 | 654 | 655 | 656 | | | | |
| 470 | 424 | 425 | 426 | 733 | 361 | 810 | | | | |
| 1000 | | 736 | 245 | 657 | 388 | 1-123-061 | | | | |
| 2200 | 658 | 659 | 660 | 1-123-067 | 984 | | | | | |
| 3300 | 661 | 1-121-075 | 1-123-071 | | | | | | | |

**** CAPACITOR ****

MYLAR

| uF | 50V 10% | 100V 10% | 200V 10% |
|---|---|---|---|
| 0.001 | 1-108-227 | 1-108-365 | 1-108-409 |
| 0.0012 | 351 | 365 | 410 |
| 0.0015 | 228 | 367 | 411 |
| 0.0018 | 352 | 368 | 412 |
| 0.0022 | 230 | 369 | 413 |
| 0.0027 | 353 | 370 | 414 |
| 0.0033 | 232 | 371 | 415 |
| 0.0039 | 354 | 372 | 416 |
| 0.0047 | 234 | 373 | 417 |
| 0.0056 | 355 | 374 | 418 |
| 0.0068 | 237 | 375 | 419 |
| 0.0082 | 356 | 376 | 420 |
| 0.01 | 239 | 377 | 421 |
| 0.012 | 357 | 378 | 422 |
| 0.015 | 240 | 379 | 423 |
| 0.018 | 358 | 380 | 424 |
| 0.022 | 242 | 381 | 425 |
| 0.027 | 359 | 382 | 426 |
| 0.033 | 244 | 383 | 427 |
| 0.039 | 360 | 384 | 428 |
| 0.047 | 246 | 385 | 429 |
| 0.056 | 361 | 386 | 430 |
| 0.068 | 249 | 387 | 431 |
| 0.082 | 362 | 388 | 432 |
| 0.1 | 251 | 389 | 433 |
| 0.12 | 363 | 390 | 434 |
| 0.15 | 252 | 391 | 435 |
| 0.18 | 364 | 392 | 436 |
| 0.22 | 254 | 393 | 437 |
| 0.27 | 854 | | |
| 0.33 | 855 | | |
| 0.39 | 856 | | |
| 0.47 | 857 | | |

CERAMIC

| | pF | Part No. |
|---|---|---|
| | 0.5 | 1-101-837 |
| | 0.75 | 586 |
| | 1.0 | 1-102-934 |
| | 1.5 | 1-101-576 |
| | 2.0 | 1-102-935 |
| S | 3 | 936 |
| L | 4 | 937 |
| | 5 | 942 |
| | 6 | 943 |
| | 7 | 944 |
| | 8 | 945 |
| | 9 | 946 |
| | 10 | 947 |
| | 11 | 948 |
| | 12 | 949 |
| | 13 | 950 |
| | 15 | 951 |
| | 16 | 952 |
| | 18 | 953 |
| | 20 | 958 |
| | 22 | 959 |
| | 24 | 960 |
| | 27 | 961 |
| | 30 | 962 |
| | 33 | 963 |
| | 36 | 964 |
| | 39 | 965 |
| | 43 | 966 |
| | 47 | 1-101-880 |
| | 51 | 882 |
| | 56 | 884 |
| | 62 | 886 |
| | 68 | 888 |
| | 75 | 890 |
| | 82 | 1-102-971 |
| | 91 | 972 |

| | pF | Part No. |
|---|---|---|
| | 100 | 1-102-973 |
| | 110 | 815 |
| | 120 | 816 |
| | 130 | 1-101-081 |
| | 150 | 361 |
| S | 160 | 367 |
| | 180 | 1-102-976 |
| L | 200 | 977 |
| | 220 | 978 |
| | 240 | 979 |
| | 270 | 980 |
| | 300 | 981 |
| | 330 | 820 |
| | 360 | 821 |
| | 390 | 822 |
| | 430 | 823 |
| | 470 | 824 |
| | 510 | 1-101-059 |
| | 560 | 1-102-115 |
| | 630 | 116 |
| | 820 | 117 |
| | 1000 | 074 |
| | 1200 | 118 |
| | 1500 | 119 |
| B | 1800 | 120 |
| | 2200 | 121 |
| | 2700 | 122 |
| | 3300 | 123 |
| | 3900 | 124 |
| | 4700 | 125 |
| | 5600 | 126 |
| | 6800 | 127 |
| | 8200 | 128 |
| | 10000 | 129 |

| | pF | Part No. |
|---|---|---|
| | 1000 | 1-101-001 |
| | 2200 | 002 |
| F | 4700 | 003 |
| | 10000 | 004 |
| | 22000 | 005 |
| | 47000 | 006 |

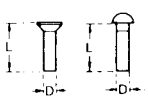
## 1/4 WATT CARBON RESISTORS

| Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 | 1-246-401-00 | 10 | 1-246-425-00 | 100 | 1-246-449-00 | 1.0k | 1-246-473-00 | 10k | 1-246-497-00 | 100k | 1-246-521-00 | 1.0M | 1-246-545-00 |
| 1.1 | 1-246-402-00 | 11 | 1-246-426-00 | 110 | 1-246-450-00 | 1.1k | 1-246-474-00 | 11k | 1-246-498-00 | 110k | 1-246-522-00 | 1.1M | 1-210-814-00 |
| 1.2 | 1-246-403-00 | 12 | 1-246-427-00 | 120 | 1-246-451-00 | 1.2k | 1-246-475-00 | 12k | 1-246-499-00 | 120k | 1-246-523-00 | 1.2M | 1-210-815-00 |
| 1.3 | 1-246-404-00 | 13 | 1-246-428-00 | 130 | 1-246-452-00 | 1.3k | 1-246-576-00 | 13k | 1-246-500-00 | 130k | 1-246-524-00 | 1.3M | 1-210-816-00 |
| 1.5 | 1-246-405-00 | 15 | 1-246-429-00 | 150 | 1-246-453-00 | 1.5k | 1-246-577-00 | 15k | 1-246-501-00 | 150k | 1-246-525-00 | 1.5M | 1-210-817-00 |
| 1.6 | 1-246-406-00 | 16 | 1-246-430-00 | 160 | 1-246-454-00 | 1.6k | 1-246-578-00 | 16k | 1-246-502-00 | 160k | 1-246-526-00 | 1.6M | 1-210-818-00 |
| 1.8 | 1-246-407-00 | 18 | 1-246-431-00 | 180 | 1-246-455-00 | 1.8k | 1-246-579-00 | 18k | 1-246-503-00 | 180k | 1-246-527-00 | 1.8M | 1-210-819-00 |
| 2.0 | 1-246-408-00 | 20 | 1-246-432-00 | 200 | 1-246-456-00 | 2.0k | 1-246-580-00 | 20k | 1-246-504-00 | 200k | 1-246-528-00 | 2.0M | 1-210-820-00 |
| 2.2 | 1-246-409-00 | 22 | 1-246-433-00 | 220 | 1-246-457-00 | 2.2k | 1-246-581-00 | 22k | 1-246-505-00 | 220k | 1-246-529-00 | 2.2M | 1-210-821-00 |
| 2.4 | 1-246-410-00 | 24 | 1-246-434-00 | 240 | 1-246-458-00 | 2.4k | 1-246-582-00 | 24k | 1-246-506-00 | 240k | 1-246-530-00 | 2.4M | 1-244-754-00 |
| 2.7 | 1-246-411-00 | 27 | 1-246-435-00 | 270 | 1-246-459-00 | 2.7k | 1-246-583-00 | 27k | 1-246-507-00 | 270k | 1-246-531-00 | 2.7M | 1-244-755-00 |
| 3.0 | 1-246-412-00 | 30 | 1-246-436-00 | 300 | 1-246-460-00 | 3.0k | 1-246-584-00 | 30k | 1-246-508-00 | 300k | 1-246-532-00 | 3.0M | 1-244-756-00 |
| 3.3 | 1-246-413-00 | 33 | 1-246-437-00 | 330 | 1-246-461-00 | 3.3k | 1-246-585-00 | 33k | 1-246-509-00 | 330k | 1-246-533-00 | 3.3M | 1-244-757-00 |
| 3.6 | 1-246-414-00 | 36 | 1-246-438-00 | 360 | 1-246-462-00 | 3.6k | 1-246-586-00 | 36k | 1-246-510-00 | 360k | 1-246-534-00 | 3.6M | 1-244-758-00 |
| 3.9 | 1-246-415-00 | 39 | 1-246-439-00 | 390 | 1-246-463-00 | 3.9k | 1-246-587-00 | 39k | 1-246-511-00 | 390k | 1-246-535-00 | 3.9M | 1-244-759-00 |
| 4.3 | 1-246-416-00 | 43 | 1-246-440-00 | 430 | 1-246-464-00 | 4.3k | 1-246-488-00 | 43k | 1-246-512-00 | 430k | 1-246-536-00 | 4.3M | 1-244-760-00 |
| 4.7 | 1-246-417-00 | 47 | 1-246-441-00 | 470 | 1-246-465-00 | 4.7k | 1-246-489-00 | 47k | 1-246-513-00 | 470k | 1-246-537-00 | 4.7M | 1-244-761-00 |
| 5.1 | 1-246-418-00 | 51 | 1-246-442-00 | 510 | 1-246-466-00 | 5.1k | 1-246-490-00 | 51k | 1-246-514-00 | 510k | 1-246-538-00 | 5.1M | 1-244-762-00 |
| 5.6 | 1-246-419-00 | 56 | 1-246-443-00 | 560 | 1-246-467-00 | 5.6k | 1-246-491-00 | 56k | 1-246-515-00 | 560k | 1-246-539-00 | | |
| 6.2 | 1-246-420-00 | 62 | 1-246-444-00 | 620 | 1-246-468-00 | 6.2k | 1-246-492-00 | 62k | 1-246-516-00 | 620k | 1-246-540-00 | | |
| 6.8 | 1-246-421-00 | 68 | 1-246-445-00 | 680 | 1-246-469-00 | 6.8k | 1-246-493-00 | 68k | 1-246-517-00 | 680k | 1-246-541-00 | | |
| 7.5 | 1-246-422-00 | 75 | 1-246-446-00 | 750 | 1-246-470-00 | 7.5k | 1-246-494-00 | 75k | 1-246-518-00 | 750k | 1-246-542-00 | | |
| 8.2 | 1-246-423-00 | 82 | 1-246-447-00 | 820 | 1-246-471-00 | 8.2k | 1-246-495-00 | 82k | 1-246-519-00 | 820k | 1-246-543-00 | | |
| 9.1 | 1-246-424-00 | 91 | 1-246-448-00 | 910 | 1-246-472-00 | 9.1k | 1-246-496-00 | 91k | 1-246-520-00 | 910k | 1-246-544-00 | | |

## HARDWARE NOMENCLATURE

**Screw:**

P 3 x 10
- *L: Length in mm*
- *D: Diameter in mm*
- *Type of head*
- *Indicated slotted-head only.*
- *Unless otherwise indicated, it means cross-recessed head (Phillips type).*




**Nut, Washer, Retaining ring:**

N 3
- *Diameter of usable screw or shaft*
- *Reference designation*

| Reference Designation | Shape | Description | Remarks |
|---|---|---|---|
| **SCREWS** | | | |
| P | | pan-head screw | binding-head (B) screw for replacement |
| PWH | | pan-head screw with washer face | binding-head (B) screw and flat washer for replacement |
| PS<br>PSP | | pan-head screw with spring washer | binding-head (B) screw and spring washer for replacement |
| PSW<br>PSPW | | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R | | round-head screw | binding-head (B) screw for replacement |
| K |  | flat-countersunk-head screw | |
| RK | | oval-countersunk-head screw | |
| B | | binding-head screw | |
| T | | truss-head screw | binding-head (B) screw for replacement |
| F | | flat-fillister-head screw | |
| RF | | fillister-head screw | |
| BV | | braizer-head screw | |

| Reference Designation | Shape | Description | Remarks |
|---|---|---|---|
| **SELF-TAPPING SCREWS** | | | |
| TA | | self-tapping screw | ex: TA, P 3 x 10 |
| PTP | | pan-head self-tapping screw | binding-head self-tapping (TA, B) screw for replacement |
| PTPWH | | pan-head self-tapping screw with washer face | binding-head self tapping (TA, B) screw and flat washer for replacement |
| PTTWH | | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement |
| **SET SCREWS** | | | |
| SC | | set screw | |
| SC | | hexagon-socket set screw | ex: SC 2.6 x 4, hexagon socket |
| **NUT** | | | |
| N |  | nut | |
| **WASHERS** | | | |
| W | | flat washer | |
| SW | | spring washer | |
| LW | | internal-tooth lock washer | ex: LW3, internal |
| LW | | external-tooth lock washer | ex: LW3, external |
| **RETAINING RINGS** | | | |
| E | | retaining ring | |
| G | | grip-type retaining ring | |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TRINITRON®
COLOR TV

# KV-2000E

*Chassis No. SCC-114A-A*

# SUPPLEMENT

No. 2
November, 1976

**Subject: Replacement UHF/VHF Tuner and Production Changes**

This supplement updates the service manual to include production changes.
File this supplement with the service manual.

## 1. REPLACEMENT UHF/VHF TUNER

The BT-851 tuner is used as a replacement in KV-2000E receivers.

### 1-1. CHANGED PARTS LIST

**Note:** When replacing UHF/VHF tuner, change values of R128, R133 and C128 simultaneously.

| Ref. No. | Former Part No./Description | New Part No./Description |
|---|---|---|
| | 1-463-190-00 Ⓦ UHF/VHF tuner, 176K | 1-463-172-00 Ⓣ UHF/VHF tuner, BT-851 |
| R128 | 300Ω ¼W carbon | 390Ω ¼W carbon |
| R133 | 560Ω ¼W carbon | 330Ω ¼W carbon |
| C128 | 1-101-884-11 Ⓐ 56 pF 50V ceramic | ---------- |

### 1-2. INTERCHANGEABILITY

Former and new UHF/VHF tuners are interchangeable.

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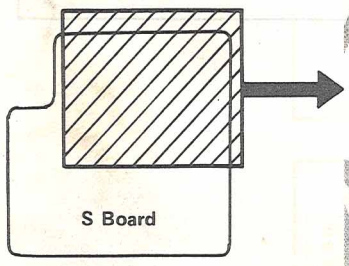
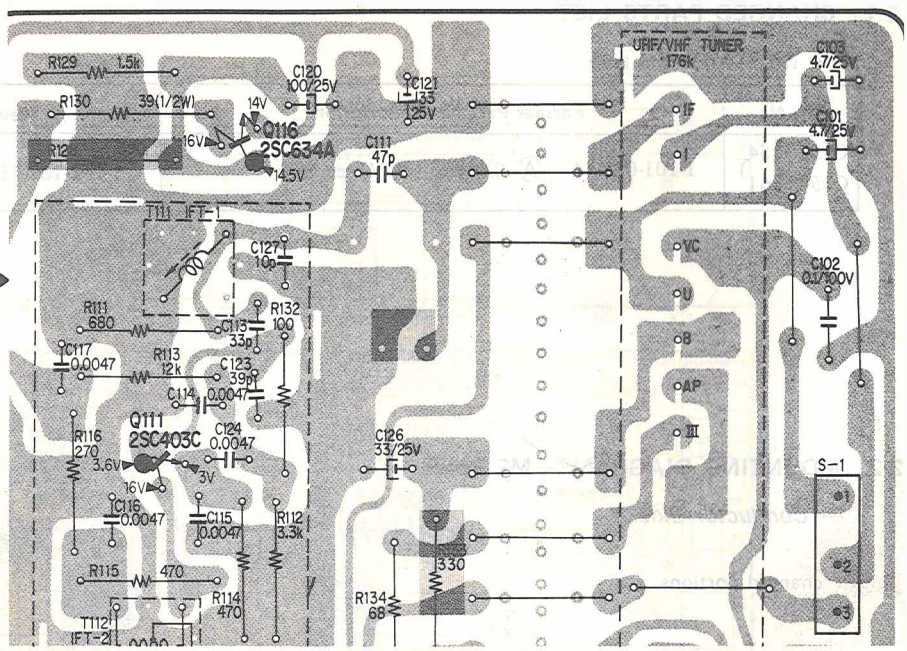
## 1-3. MOUNTING DIAGRAM – S Board –

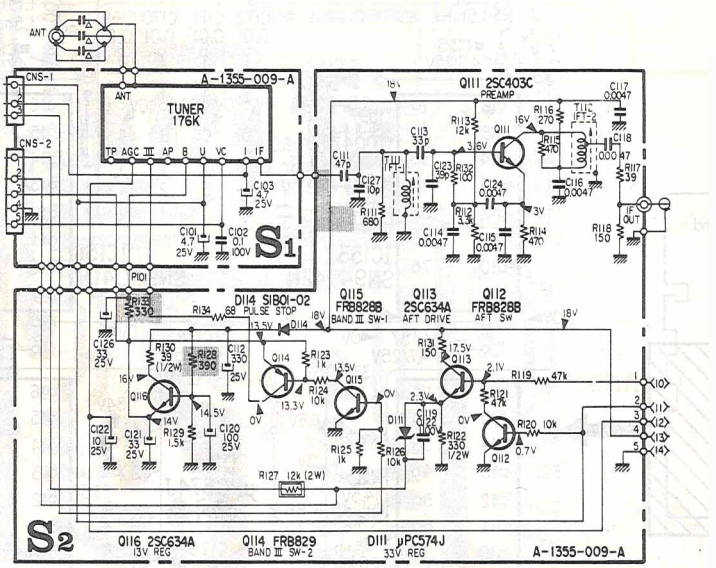
*– Conductor Side –*

: changed portions.



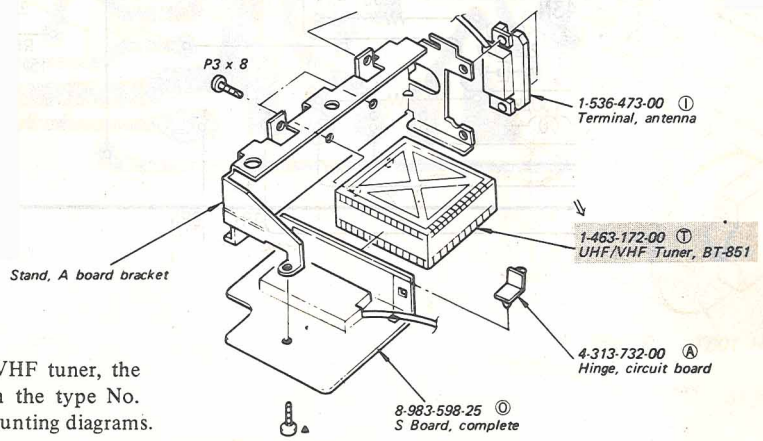




## 1-4. SCHEMATIC DIAGRAM




## 1-5. EXPLODED VIEW

On page 42




⇒ : Due to the replacement UHF/VHF tuner, the type BT-851 is different from the type No. shown in the schematic and mounting diagrams.

## 2. PRODUCTION CHANGES

### 2-1. CHANGED PARTS LIST

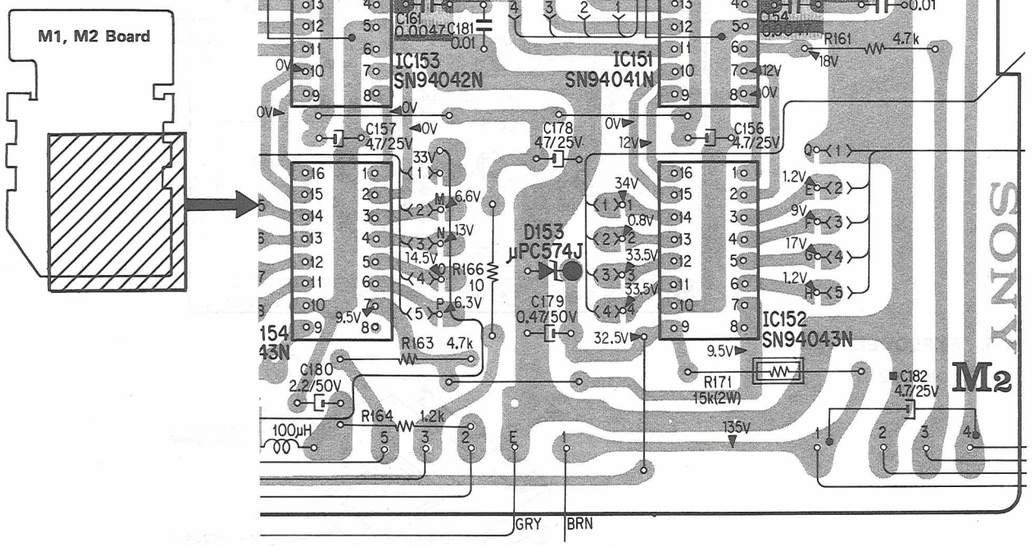
Serial No. 510,001 and later

| Ref. No. | Former Part No./Description | New Part No./Description |
|---|---|---|
| C151~154<br>C158~161 | 1-101-004-11 Ⓐ 0.01μF 50V ceramic | 1-102-102-11 Ⓐ 0.0047μF 50V ceramic |

### 2-2. MOUNTING DIAGRAM — M2 Board —

*— Conductor Side —*

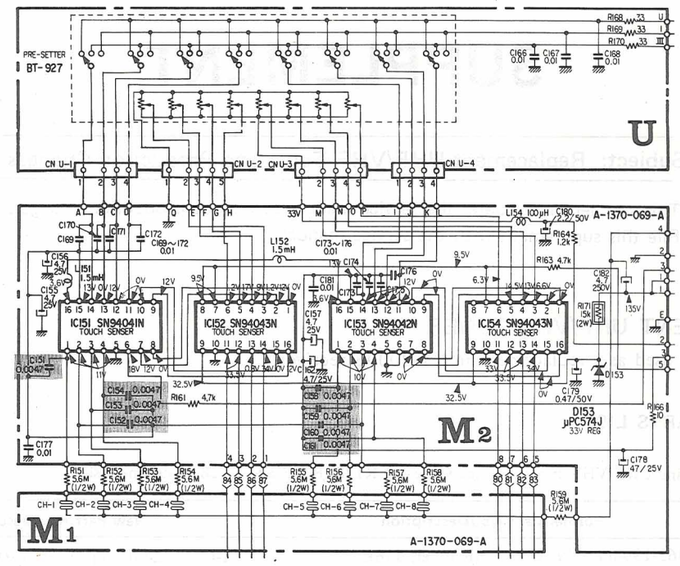
▒▒: changed portions.






### 2-3. SCHEMATIC DIAGRAM

▒▒: changed portions.




### 2-4. CONNECTOR INSTALLATION (for H. SIZE Adjustment)

When plugging the connector in the terminal boards E-6 and E-7, always install it as shown in Fig. B.

WRONG

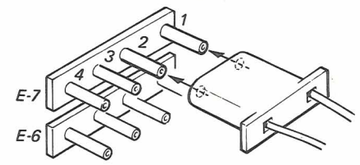



*Fig. A*

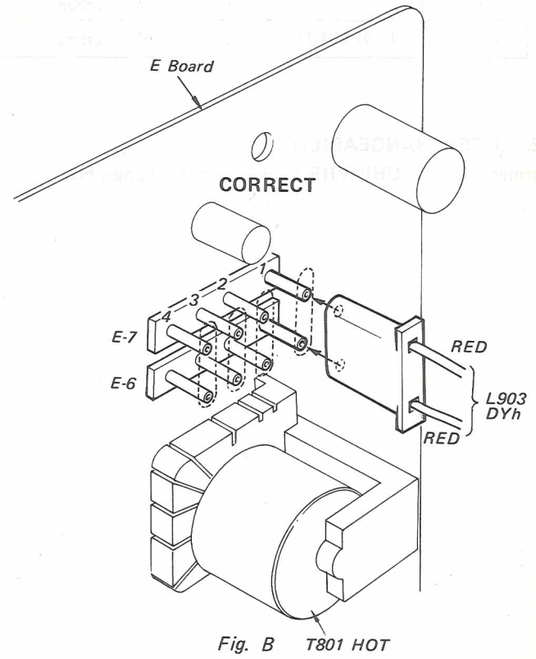



*Fig. B*



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